C A L I F O R N I A

OIL WORLD

OF MICH...
Jan 7 '59
ENGINEER...
LIBRA...

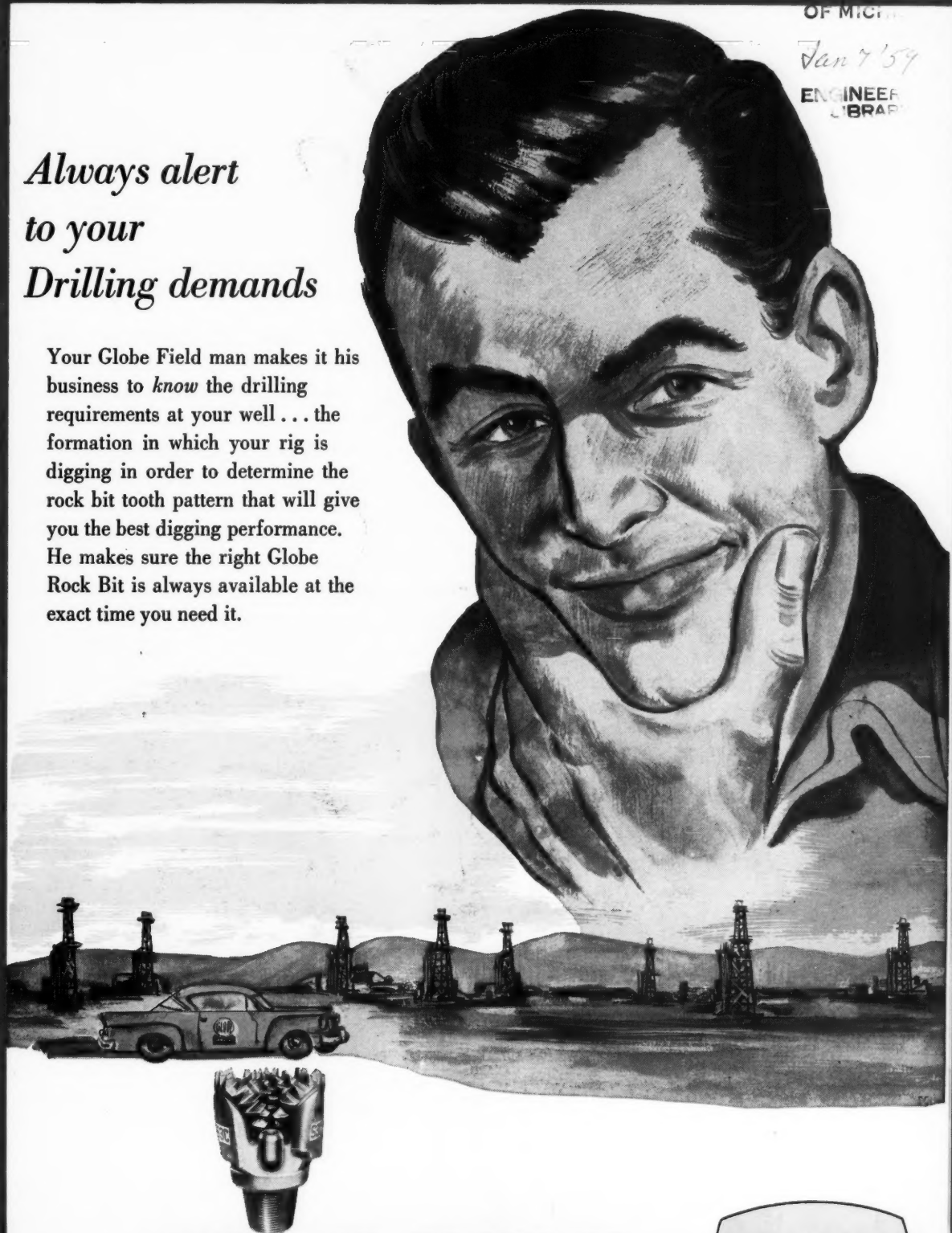
COVERING
•
New Mexico
California
Wyoming
Montana
Colorado
Idaho
Utah
—
Western Canada

TWICE
MONTHLY
•
FIRST
ISSUE
•
DECEMBER
1958

...st Year
Vol. 51
No. 23

Always alert to your Drilling demands

Your Globe Field man makes it his business to *know* the drilling requirements at your well . . . the formation in which your rig is digging in order to determine the rock bit tooth pattern that will give you the best digging performance. He makes sure the right Globe Rock Bit is always available at the exact time you need it.



GLOBE OIL TOOLS CO.

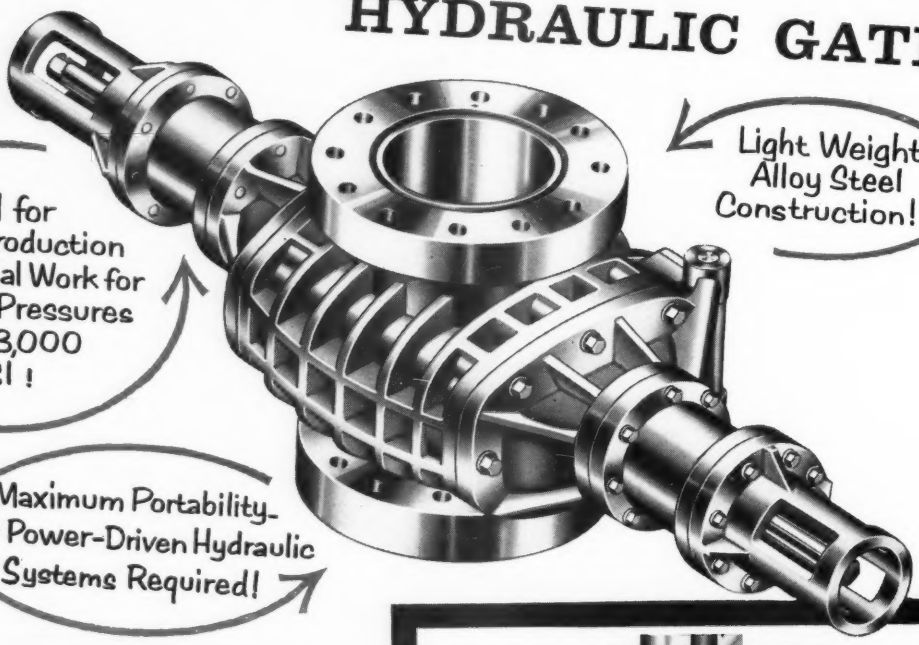
Main Office and Plant: LOS NIETOS, CALIFORNIA

Branches In All Principal Drilling Areas Are Serving The

GLOBE
OIL WELL
DRILLING TOOLS

. . . and ANOTHER Shaffer Advancement!

SHAFFER TYPE LWS HYDRAULIC GATES



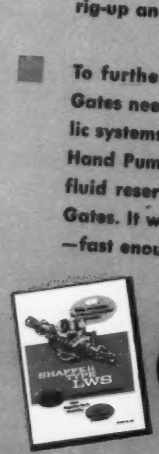
Ideal for Drilling, Production and Remedial Work for Working Pressures Up to 3,000 PSI!

Light Weight Alloy Steel Construction!

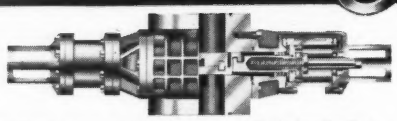
Maximum Portability—NO Power-Driven Hydraulic Systems Required!

Right on the heels of the recently announced new Shaffer Type XHP Hydraulic Gates for *Extra High Pressure* protection, comes another vitally important Shaffer pressure control advancement—Shaffer Type LWS Hydraulic Gates for new convenience and economy where pressure protection is desired on production, work-over and drilling operations in which portability and minimum rig-up time are important factors.

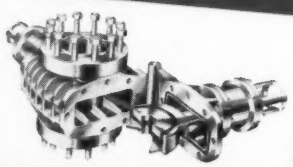
- **Type LWS Gates feature a new type of heavily-ribbed alloy steel construction that combines light weight with adequate strength for the rated working pressures.**
- **Being light in weight, Type LWS Gates are easy to install and to move about from rig to rig—therefore, are ideal for use on quick "in-and-out" jobs where rig-up and break-down time is vital.**
- **To further simplify portable operations, Type LWS Gates need not be operated by power-driven hydraulic systems. If preferred, a portable Shaffer Hydraulic Hand Pump—completely self-contained with its own fluid reservoir—is available for operating Type LWS Gates. It will close the rams in from 15 to 20 seconds—fast enough for even urgent pressure emergencies!**



Send for new 12 page brochure that gives full details on Shaffer Type LWS Hydraulic Gates. Or see your nearest Shaffer representative for complete information!



Sectional View of Shaffer Type LWS Hydraulic Gate
Note field-proven "In-Line" construction of each ram and its operating piston.



"Swinging End-Opening" design assures maximum ease in servicing the rams and the ram compartments.

- **Type LWS Gates feature "Swinging End-Opening" body construction for maximum ease in changing or servicing the rams without loss of operating fluid . . . have positive "In-Line" piston and ram design, with no yokes or complicated connections between each piston and its ram . . . and have many other important Shaffer advancements.**

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HIGH PRESSURE DRILLING AND CONTROL EQUIPMENT • FISHING TOOLS THAT EXCEL

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EXPORT SALES OFFICE, Shaffer Tool Works, 500 Fifth Avenue, New York, N. Y., U.S.A.

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Petroleum in the Long-Term Pull

A great many of us have been viewing the petroleum prospects with jaundiced eyes. Certainly the year 1957 gave us good reason to look at our hole card; but, to quote Austin Cadle, Manager of the Economics Department, Standard Oil Company of California, "About mid-1957, United States petroleum demand consummated several years of expanding growth to arrive at a plateau from which it is now resuming its climb toward higher elevations." This was in an address he made at the A.P.I. meeting in Chicago last November, the title of his address being "United States Petroleum Forecast and Dynamic World Growth in Petroleum Demands." The following predictions are taken from that address, as is the drawing reproduced below.

Considering first the year 1959, Mr. Cadle said we should witness an increase in domestic demands of four per cent; that the expected gasolines to approximate such a demand increase and jet fuels to increase some eleven per cent. Even distillates and residual fuel oil should gain somewhat, despite competition from natural gas. Thus demands should be getting back on the trend to continually higher elevations as succeeding years unfold. In the total foreign area of the Free World, demands in 1959 should increase by approximately eleven per cent.

A Dynamic Future Growth

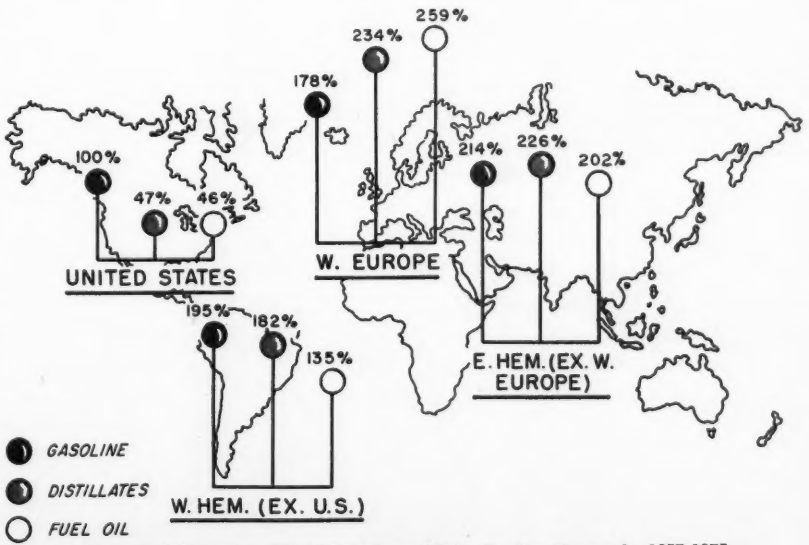
Figured in oil equivalent, by 1975 the Free World energy requirements will be some 75 million barrels per day and of this demand 50 per cent will be met by oil. The United States will need energy the equivalent of 35 million more barrels of oil daily by that time—an 83 per cent increase. Petroleum's share of the total demand should drop two per cent but this would still mean a 76 per cent increase over current production. The principal restraining factor on United States oil demand is competition with natural gas.

Taking into consideration population growth, total energy requirements and the regional differences throughout the Free World, Mr. Cadle made an overall estimate of the growth in world petroleum major product demands which are shown graphically in the accompanying drawing.

Refining Capacity

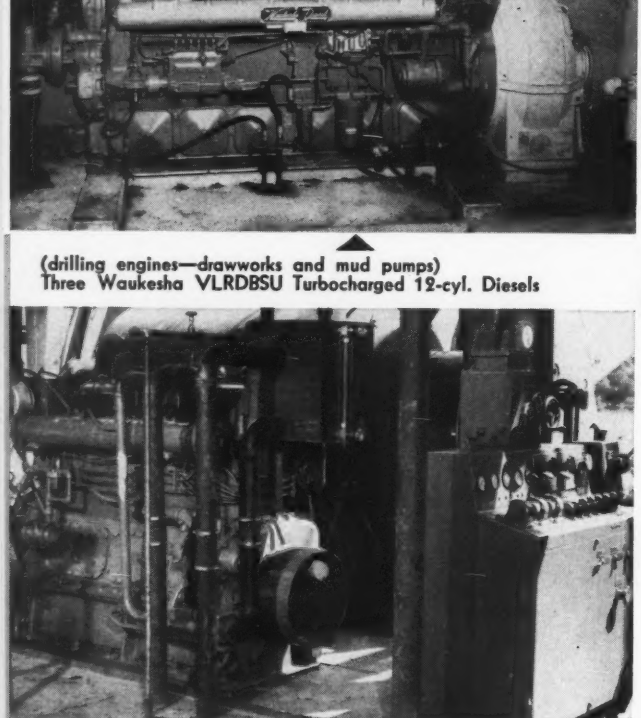
In 1957, Free World crude refining capacity totaled 18 million barrels per day. Of this, 52 per cent was in the United States, 17 per cent in Western Europe, 19 per cent in other Western Hemisphere, and 12 per cent in other Eastern Hemisphere. Predicated on the demand patterns outlined, the Free World refining requirements for 1975 will increase about 136 per cent to approximately 42 million barrels per day. The increase of each area over its present capacity would be:—United States, 76 per cent; West Europe, 229 per cent; other Western Hemisphere, 174 per cent; other Eastern Hemisphere, 214 per cent.

(Continued on Page 3)

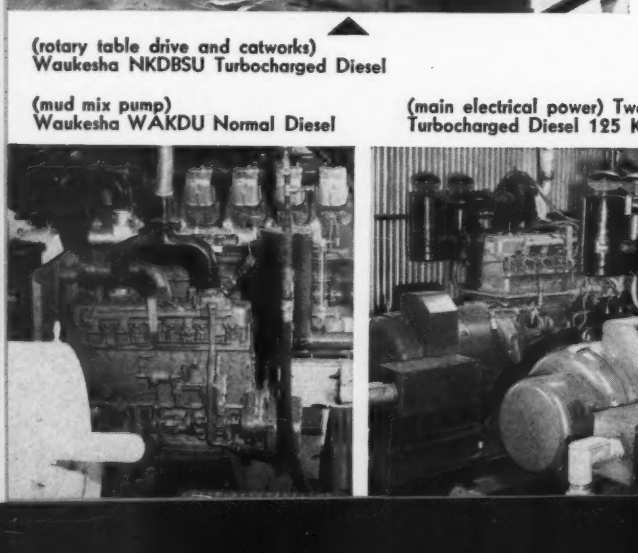


Estimated Growth in World Petroleum Major Product Demands, 1957-1975

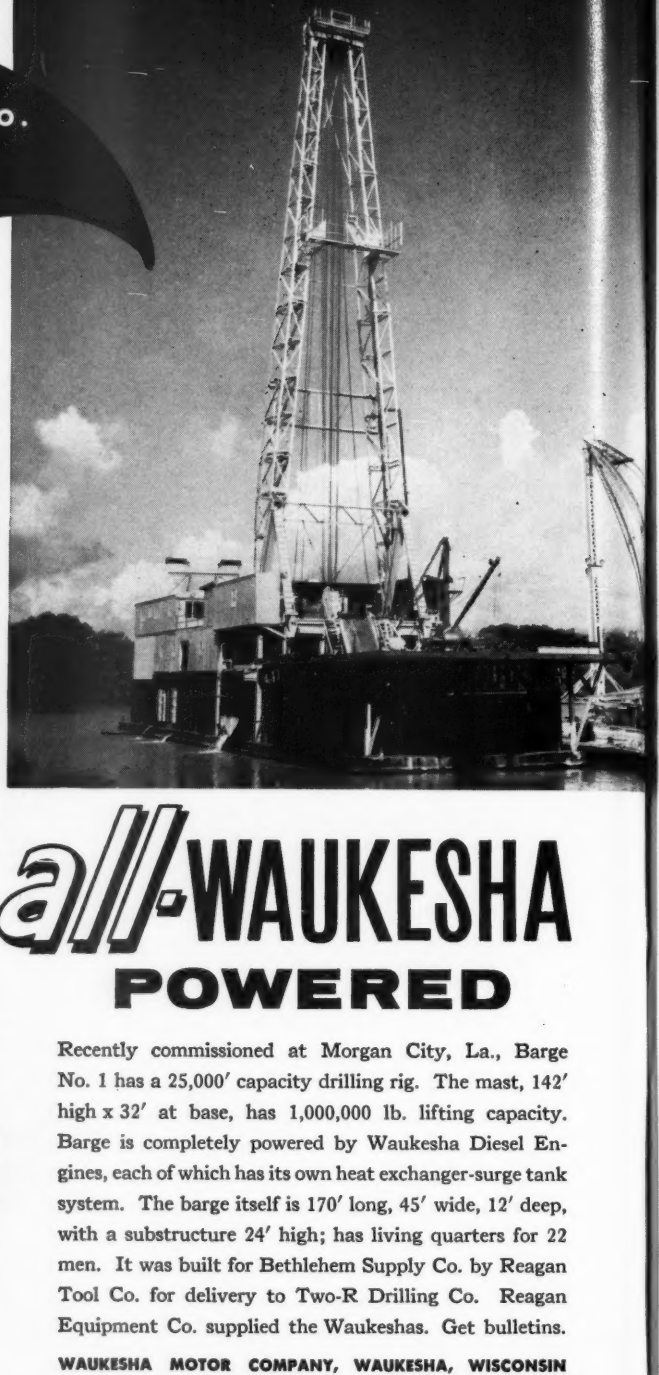
NEW Two-R Drilling Co. BARGE No. 1



(drilling engines—drawworks and mud pumps)
Three Waukesha VLRDBSU Turbocharged 12-cyl. Diesels



(rotary table drive and catworks)
Waukesha NKDBSU Turbocharged Diesel



all-WAUKESHA POWERED

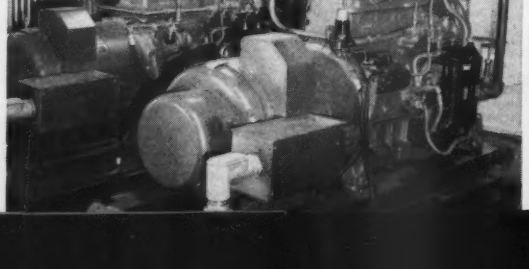
Recently commissioned at Morgan City, La., Barge No. 1 has a 25,000′ capacity drilling rig. The mast, 142′ high x 32′ at base, has 1,000,000 lb. lifting capacity. Barge is completely powered by Waukesha Diesel Engines, each of which has its own heat exchanger-surge tank system. The barge itself is 170′ long, 45′ wide, 12′ deep, with a substructure 24′ high; has living quarters for 22 men. It was built for Bethlehem Supply Co. by Reagan Tool Co. for delivery to Two-R Drilling Co. Reagan Equipment Co. supplied the Waukeshas. Get bulletins.

WAUKESHA MOTOR COMPANY, WAUKESHA, WISCONSIN
New York • Tulsa • Los Angeles

396

(mud mix pump)
Waukesha WAKDU Normal Diesel

(main electrical power) Two Waukesha WAKDBSU Turbocharged Diesel 125 KW Enginators



(de-sander unit)
Waukesha 190-DLCU Normal Diesel

In addition to predicting a 20 billion dollar expansion in refining capacity (76 per cent in the United States) Mr. Cadle saw a need for additional tankers, more terminals, and marketing outlets as well as crude and product transportation media that would require an investment figure which would stagger the imagination.

Nuclear Energy

Viewing the future competition of nuclear energy, it was stated that the combined capacity of all electric generating plants in the United States and Europe scheduled by the mid-sixties is considerably less than the capacity added to the United States total power system in the course of a single year.

On the basis of current cost predictions, Mr. Cadle said it is difficult to visualize any extensive development of nuclear power plants for another 10 or 15 years. Even if all such installations in the long-term future were to be nuclear, it would replace a very small percentage of the total consumption of liquid fuels.

Conclusions

In concluding, Mr. Cadle pointed to the following major features of the future.

(1) Demands have by no means reached a saturation point in the United States petroleum industry.

(2) The future pattern in the undeveloped areas of the Western and Eastern Hemispheres is one of rather astounding expansion in the use of petroleum.

(3) Western Europe shows even greater potentialities; and in that area, as well as in the balance of the Eastern Hemisphere, the prospects for distillates and residual fuel oil exceed the percentage increases expected for gasoline.

(4) These increases in demand translate into a growing need for huge development of crude oil production and for building of transportation, refining and marketing facilities.

Tidewater Budgets $100 Million Capital Expenditures

Tidewater Oil Company's board of directors approved capital expenditures of $100,000,000 for the 1959 fiscal year. Announcement of the capital budget for Tidewater and its consolidated subsidiaries was made by President George F. Getty II following the first board meeting held in the new world headquarters building which Tidewater opened here last week.

"These expenditures represent a continuation of the long-range modernization, expansion and improvement program which Tidewater began in 1953," Getty stated. "This program now involves capital expenditures totaling $831,000,000 for the seven-year period ending December 31, 1959."

Tidewater's 1958 capital outlay is expected to amount to $100,000,000 —the same as that planned for next year, Getty said.

Superior Inaugurates Scholarship Program

The Superior Oil Company joined the increasing number of private firms helping the nation shoulder its ever-growing educational burden today with the announcement of a $100,000-a-year university scholarship program.

The first students to benefit by the program are already attending classes on Superior scholarships. In four years, when the program is in full operation, the company will be sending a total of 76 students to eight universities each year. Three schools in the Los Angeles area will participate in the program—The California Institute of Technology, The University of Southern California, and Loyola University.

Robert A. Day, Superior vice president, in explaining the company's reasons for inaugurating the scholarship program, said: "At Superior, we feel it is our duty to be good citizens of the communities in which we reside and we know of no better way to take part in community life than through education.

"We hope that this scholarship program will help establish permanent bonds between our company and the Los Angeles community, while aiding young men and women to further their educations.

"We also hope that some of these young people, through their studies of engineering and law, may one day lend their youth and talents to the oil industry."

In addition to the three Los Angeles schools, Rice University, Louisiana State University, the University of Houston, The University of Alberta and the University of Saskatchewan will also be recipients of scholarships.

Standard of Cal. to Award Grants to Colleges

Standard Oil Company of California has announced plans to award in 1959 more than $175,000 in unrestricted grants to 34 private colleges in the United States. The grants supplement the broad program of scholarships, fellowships, scientific grants and special services already included in its general program of aid to education. Southern California institutions sharing in these grants are the California Institute of Technology, the University of Southern California and Pomona College.

Board Chairman R. G. Follis and President T. S. Petersen said this decision recognized the needs of these institutions for financial assistance and the contribution they and their alumni make to higher education, notably in science and engineering.

The unrestricted grants will help defray general expenses at the 34 colleges and do not replace the company's established program of scholarships, fellowships and research grants for specific purposes. Colleges to receive the unrestricted grants already have been advised.

The over-all program of Standard and its subsidiaries for aid to education through fellowships, scholarships, unrestricted aid, technical grants and special services will amount to more than $1,300,000 in 1959. Included in this program are 11 fundamental research projects at nine universities, 47 technical fellowships and approximately 230 undergraduate scholarships at some 100 colleges. In the case of nontechnical scholarships, choice of the field of study is left to the discretion of recipients.

As a supplement to its aid to education program, Standard also joined recently with several other American firms in sponsorship of "Continental Classroom," the nation's first accredited college course to be offered via network television. This televised physics course was started October 6 and will run through June 5, 1959.

THE GRAPEVINE

By RICHARD SNEDDON

The Opening Stanza

As we have often reiterated here, December, as far as oil people are concerned, is a frightening succession of cocktail parties, whingdings, and whangaroos, that are as enervating as a Catalina channel swim. What with the Los Angeles, Long Beach, and Petroleum Club holiday balls, wildcat play, annual meeting of Petroleum Production Pioneers, Purchasing Agents Christmas party, the Youngstown-Continental Emsco classic get-together, and a thousand and one greater and lesser convocations and conventicles, the man (or woman) who survives the entire epidemic and enters into the New Year without benefit of medical assistance has good reason to be proud of his social stamina, for this is certainly a severe test of physical endurance, mental stability, and gastronomic elasticity. Anyway, before it is too late, herewith to all and sundry, the complaints of the season, not to mention a merry inexpensive Christmas and a happy economical New Year!

Tidewater Moves

It was our pleasure to attend a preview of the opening of Tidewater Oil Company's fine new building out at Wilshire and Crenshaw, and we were more than impressed by the white Vermont marbles, the stainless steel spandrels, the general majesty of the entire structure, and the esthetic as well as utility arrangements of its well organized interior. However, being one of those rare Scots who is more interested in people than property, we prefer here, to talk a little about personal rather than structural attributes. We chatted amiably and at length with the Getty brothers, George F. II, and J. Ronald, and can unqualifiedly recommend both.

We Meet The Prexy

George did an elegant job of handling the press conference and he won this correspondent over quickly,

Geo. F. Getty II J. Ronald Getty

not only with his pleasant no-axe-to-grind attitude but with his intimate knowledge of oil operation in many widely diverse phases. He is young looking, an interesting and uninhibited conversationalist, and he has that essential quality of executive success—a thoroughly rationalistic mind. He is an eager, almost anxious mixer, who obviously likes people and is hence easy to like. Even if his name weren't George F. Getty II, we feel sure that he would be somewhere in the higher echelons of business, for he is patently a studious chap with an unusually assimilative capacity for information affecting that with which he is immediately concerned. We would say with plenty of assurance that the direction of Tidewater's multitudinous domestic activities and farflung foreign operations is in mighty capable hands.

Victim of the Petroleic Yen

We didn't quite get the same opportunity to observe Ron in official action but spent considerable time in the **hors d'oeuvres** department exchanging small talk with him and here again we were most favorably impressed by the friendliness of his attitude and the keenness of his intellect. Ron is a tall, handsome chap, a mere 27 years old, but already a hopeless victim of the **animus petroleumensis.** His forte is sales but like George he is also remarkably well informed on other aspects of petroleum operation. Indeed, it is not unlikely that they have both been influenced from their first moments of understanding by the compelling power of petroleic genes and hydrocarbon corpuscles. In any case the total Tidewater enterprise is not likely to suffer from lack of logic or sound diagnostic capacity as long as these two rationalists have anything to do with handling the reins.

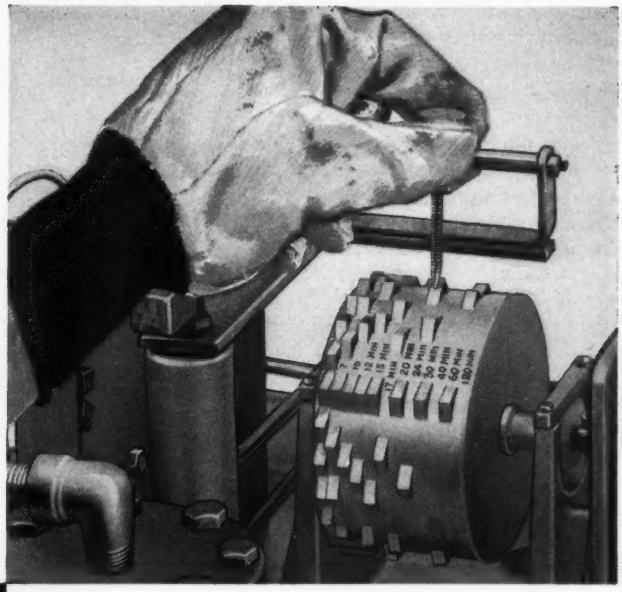
Welcome to the Deep South

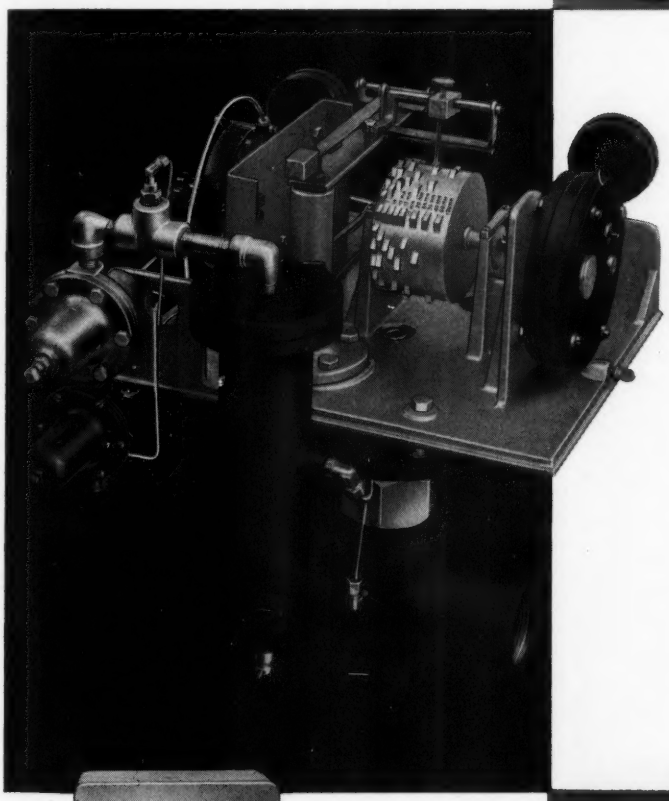
Among others with whom we conversed briefly were Charlie Brown, vice president and general manager of the Western Division, already widely known and well regarded down thisaway; Wally Mitchell, the construction whiz, who besides putting in that gathering system in the Kuwait Neutral zone, also ran herd on the construction of the new building, and as anyone can see, did a top job of that too; Charlie Pollack, the public relations chap who was a popular member of the trade press in Los Angeles for a number of years before he moved to Baghdad by the Bay; and of course, the local public relations sharpie, George Murray, one of our favorite people and a close friend of many year's standing. Didn't get a chance to meet Tom Dailey, Jr., executive assistant to the president, but from the complimentary remarks that were made about him by his boss and sundry contributions volunteered by others of his close associates, we gather that he is pretty high class people. We were sorry to miss Dave Staples, Board Chairman, an erstwhile Canuck from the wilds of Manitoba where we ourself first learned the discomfort of the gelid auricle, or frozen ear as it is more vulgarly termed. Had also hoped to say hello to that noted Hoosier, Harrison Haney, vice president and manager of transportation with whom on occasion we have shared some of the excitements of membership in the Western Pipe Liner's Club. But we shall hope to see these and all the other disciples of the

Accurate Gas Lift Time Cycle Control With Finger-Tip Adjustments

GUIBERSON'S AF

Intermitter-Regulator





Here's a real *oil field tool.* A rugged, long lasting intermitter-regulator for gas lift, which can be accurately set by a field man *with his gloves on*.. no special tools needed.

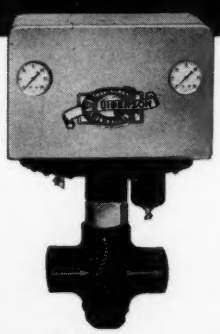
Note the intermitter-regulator with the cover removed. See how simple and trouble free the mechanism is.. no loose pins to set.. no tiny parts to adjust.

Select a time cycle by moving the adjusting screw along the slide bar until it lines up with the desired time embossed on the drum. Then set the injection time by turning the adjusting screw. Turning right increases.. left decreases.

Cycle frequencies are possible from an every five minute maximum to a minimum of one injection per revolution of the two-hour clock. Each cycle repeats with reliable accuracy.

For use as a pressure regulator, back off the adjusting screw until it clears timer drum tabs. Set to hold desired pressure with adjusting knob on the bourdon tube. It's as simple as that.

All parts are corrosion resistant and precision-made for long life and dependable service.



Ask your Guiberson representative about the multiple control problems you can solve with Guiberson equipment.

SAFE THAN SORRY — BETTER BE GUIBERSON

THE

GUIBERSON

CORPORATION

ESTABLISHED 1919 — DALLAS, TEXAS U. S. A.

Aviating Alpha when they get settled down more firmly here. Meantime, happy transfer of personnel and facilities to the City of Lost Angels from one of its most irretrievably lost!

The Rockfellow Saga

One of the memorable joys of our 17 year association with Union Oil Company, and there were many, was the opportunity it provided to become very well acquainted with one of the nicest guys it has ever been our good fortune to meet. This delightsome soul is variously known as "John D," "Grebe," "Phil," and "Rocky," and including the name on his birth certificate, John Phillip Rockfellow, and he is without question the most patriotic Arizonan that Arizona ever produced. Phil, as we shall call him here, was long one of our closest friends and the news that he is about to retire is the cause of this outburst. For 35 years that we can remember, he has been directing some form of industrial relations actively for Union and it is doubtful if any man in any organization of comparable size is so widely known and universally loved. For a couple of decades he has been foraging about the leading universities of the United States picking up promising young chemists, physicists, engineers, and other **whizzen kiddenkind scientifikers** for his company and he is just as well known to the faculty of M.I.T. or Princeton University as he is to the beef barbecuers out at Brea.

A Game Resembling Golf

There was quite a long span at the peak of the Rockfellow career when he was a member of one of the most atrocious golf foursomes in unrecorded golf history. Besides himself, it included three notorious fairway despoilers, to wit, Howard Said, Cash Belden, and the character known as Snedderhorn, who is the author of this confession. We met regularly on Saturday mornings and that was usually the last regular thing we did for the rest of the day. Arrived at the course Howard always took off his shoes, which was a good idea because he was a cinch to be fighting a water hazard sooner or later. Most of his time, however, he spent precariously balanced on some rocky hillside ledge, combing grass in the woods, or fighting his way out of enveloping sand traps of which there seemed to us to be millions. Despite these set-backs we were all agreed that Howard had a dandy swing, which we pretended to believe was even better than a low score.

GEARS FOR INDUSTRY
THE Lufkin LINE
OIL FIELD PUMPING UNITS

Kris Kringle iss Loaded

'Twas a fortnit to Christmas
When all thru der shoppe
Dere was poundin unt paintin
Unt workin und schtuff.

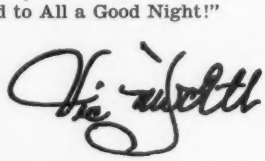
Das orders keep kumin unt looks
like ders more
To maken das gears* what turnin
das wheels
In refinerundkraken dose automs
unt gunk.

Das gears* kutten gut mit finish
unt polish
Reflektin mit sharpness das sch-
millin unt grinnin of fokes who
are allatime buyin
Unt yuse in all kinds of werkes
Like schteel fabrikaten, unt
potash and borax
Where der juis they produce
Wich fire up der rockets
Mit schkwirten unt schpitten unt
pusch.

Mit werken unt schwettin
Der bunch takes der pig iron
Unt mit fond Luffiinkare
They squeeze unt they pusch unt
suddenly—Pfft
It's a Herringbone-Sykes precision-made gear*

Kriss Kringle mit glee unt gut
cheer in his heart Iss loaded
(mit goods)
Unt he's got gears* for der mills,
unt gears for der wells,
Unt gears for gut guys all over
der world.

So mit schnappin unt kraken, der
whip iss sure werken,
Kriss Kringle he spraken
Mit shouten unt yellin
"Now Dasher, now Dancer,
Prancer and Vixen,
On Comet, on Cupid, Donner unt
Blitzen,
To the top of the walls."
—unt over der klouds
And we heard him exclaim
As he drove out of sight
"Merry Christmas to All
And to All a Good Night!"



***Lufkin Gears, natch!**

Lufkin FOUNDRY
& MACHINE COMPANY

Other Types of Sod Heavers

Cash Belden was one of the looser type of golfers. Ignoring the advice of the experts, he bent his left elbow, his right elbow, his knees, and sometimes the No. 1 iron that he used in place of a driver. When he really smacked the ball it sailed out into space like an unguided transcontinental missile and no one ever saw it again. Nonetheless, two such mighty clouts in an 18-hole round made Cash happier than the fuse lighter at Cape Canaveral. As for Phil, trees were his weakness. They simply hypnotized him. Once he hit the same oak in four successive shots without ever changing position, which was certainly more of an accomplishment than some silly thing like getting a hole in one. It is perhaps better not to discuss the Snedderhorn system. It was simply a matter of progressing in a series of short ziggagging hops, never exceeding 40 feet, from one hole to another via the longest and roughest route.

Making the Headlines

Between us we had an amazing collection of defunct tools, with woods like war-worn shillelaghs, irons that were deeply corroded from age and inattention, and we can recall personally that when we thrust a club angrily into the bag after dubbing a shot, it went right on through the bottom. Anyone who ever showed up with a new ball was regarded as a showoff, and the ones we played with looked as if they had been boiled in rotary mud and beaten with the back of a shovel while they were still warm. Nevertheless, when we lost one, we searched long and diligently for it, and it was not uncommon for all four of us to be the victims of lost balls on the same hole at the same time, and the foursomes playing through looked like a procession of equestrians in the Pasadena Rose Parade. Incidentally, one of our most embarrassing experiences took place at the Rockfellow manor in Glendale one night whence we had been invited for an evening of bridge with a number of mutual friends. When we and our good lady arrived a trifle late, we found everyone very

intently reading a newspaper which carried a three inch headline, reading, "SNEDDON ARRESTED FOR MOLESTING SMALL GIRLS."

The Dude Rancher

For some years Phil has been engaged in some sort of surreptitious stock (cattle, that is) enterprise which will be a complete surprise to nobody. Nearly everyone who ever knew him and debated his chances of business success agreed that if he had chosen to try he could have made a fortune as the proprietor of a dude ranch. The Rockfellow family has long owned the Cochise Ranch near Tombstone, Arizona, one of the really exciting historical spots in the state. Phil's dad was a mining engineer, a fine gentleman with whom, before he passed away, we engaged in many interesting chats on the Cochise episode and the peregrinations of the Butterfield stage coaches. He was the author of one book of Arizona reminiscences and helped furnish data for several more that were written by Dean Lockwood of Arizona University.

A Bit of Genealogy

Phil and his ladylove, Norma, now live in Fullerton. They have a married daughter, Julie, and a son, Jack. Julie has two children who think as most people do that their grand parents are mighty swell people. Phil's sister, Henry, is Mrs. A. C. "Cy" Rubel and you would go a long way to find a more pleasant and altogether gracious lady, which makes it look as if tranquillity and friendliness are definite family traits. One thing we can say with certainty about Phil Rockfellow's retirement —he is not the least bit likely to suffer from loneliness. No man ever did a better job of cultivating friends for himself and his company. He wasn't called a public relations anything but he was undoubtedly tops in that field. Personally, we can declare in all sincerity that our own life was greatly enriched by the companionship of this utterly genuine guy and since he is still comparatively young in outlook and vitality, we wish for him, Norma and all their progeny the very most of the very best, especially good health to enjoy all the friendships they have built up over the years.

The Fight Racket

In 1936 when we were editor of Union Oil Bulletin we did a story on the then new Studebaker assembly plant. We were helped immeasurably in this assignment by the plant security officer, so in our account we gave him a few verbal pats on the back for his kindly offices. Shortly thereafter he phoned and invited us to Jim Jeffries barn out in Burbank. There we discovered that he was the official time keeper, that is, the guy who tolls the knell of parting consciousness. He introduced us to big lumbering Jim Jeffries, his demure little wife, fight officials, members of the boxing commission, referees, and a stash of pugs. Before bidding us a fond adieu, in a final burst of gratitude, he asked if we would like to have a momento of the occasion. The certificate reproduced here is that memento. It is as authentic as a traffic ticket, bears the names of all the authorized signatories, and for added measure that of Big Jim himself. The only thing wrong with it is that no fight took place between Kid Rockfellow and K. O. Sneddon, but we still contend, that's the way it would have

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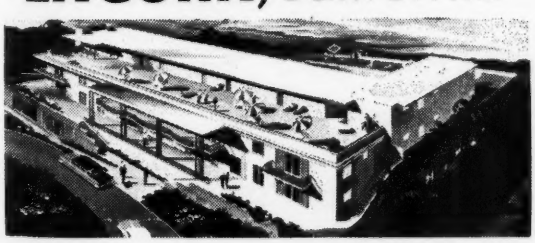
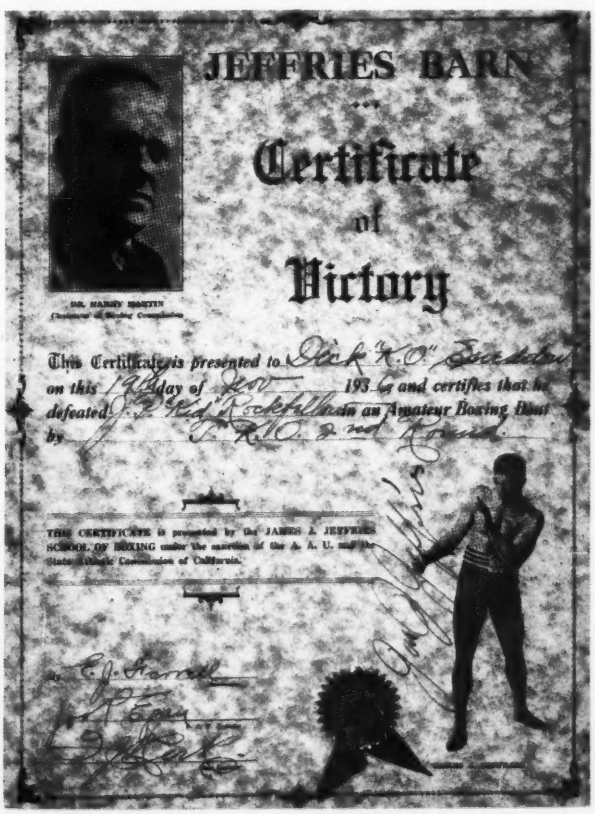




Memento of a Glorious Battle

Merry Christmas
and may your New Year be every bit the best!
H C Smith
OIL TOOL CO.

turned out if the match actually had taken place.

Here and There

Now for a few choice morsels of last minute news: Lee Laird is currently with the Ladish Company; Lev Sacre, the Wireco distributor, and his lovely Hope, are back from their trip to Hawaii, still slightly dazed but enthusiastically appreciative of the whole adventure. According to Bill Porter, author of that interesting book "Basic Geology," there are two bartenders in the Santa Maria Inn, named Ira Gin and Angel Bourbon—a Ripley item if we ever heard one; with Glenn Pitts as our partner we were ground to small pieces in a gin mill at Wilshire Country Club the other evening by these two gentle looking fellows, Jim MacDonald and John Robinson. It is sad to see one's hard earned mazoola go to people who already have it running out of their ears, but life is like that. The worst of it is that ever since then Glenn Pitts has been going around trying to organize a "hate Snedderhorn" week; Bill Cline, the new Big Shot of the Nineteeners, handled his first regular meeting with distinction. Usually the meeting sounds as if it were being held inside a boiler on which many welders are at work. This time it sounded as if it were being held just outside the boiler. Bill Wiley is back with McCullough Tool Co.; Jim McNeil has given up his post with the Consortium over in Teheran but will dash over there again with Al Stevenson for one swift visit before Christmas; congratulations to our old buddy, Bill Ketteringham, who was recently presented a gold wrist watch by Fred Harlley following 35 years in the research lab of Union Oil Co.

Hither and Yon

Ran into Harold Hoots a short time ago and he tells us that the black angus cattle on the Hoots Angus Farm in Grants Pass, Oregon, are mooing with such a pronounced Caledonian burr that the cows are giving cream cheese instead of milk. A recent visitor in our village was Herb Maland, the highly personable New York associate of R. J. Eiche & Associates. Apologies to Lew Bronzan, for changing his affiliation without authority. He is now with McCullough Tool Co.

The Rental Situation

The Tidewater move to Los Angeles reminded us of one of Olen Lane's favorite stories: During the dark days of the dust bowl, a family of Oklahomans, about sixteen strong, rode into Los Angeles in an ancient chariot, with springs and mattresses tied to the top, and pots and pans stuffed in wherever they would go. They scoured the city for some place to live and were just about to give up when they ran across a big old three-story wooden house with about 14 rooms in it. The place was unoccupied so they chased around the neighborhood trying to find the proprietor. Nobody could tell them a thing about the place and in desperation they just moved in. After staying for about three years, the father of the family went down to the Hall of Records to see if he could find out who owned it. The clerk asked, "To whom do you pay your rent?" "I have never paid any rent," answered the old fellow. "My gosh," said the clerk, "if you are getting off without paying rent, why are you so anxious to find the landlord?" You could have knocked him over with a V-8 when the Okie replied, curtly, "the roof's leaking!"

The End of the Lesson

From La Paz we have an interesting looking magazine, entitled "Petroleo en Bolivia" sent to us by our Bolivian correspondent, Ben Hake of Bolivian Gulf Oil Co. As soon as we learn Spanish we expect to present a resume'. That incurable globe trotter, Archie MacDonald is off on another trip, this time to Australia, and the South Seas. If he finds a favorable opportunity he will probably stick a flag in Melbourne and claim it for Balboa Island. Congrats to Wally Curtis, the noted Flying Horseman who recently won a bronze medal for one of his color photographs! The same to Ray Antunez, who has just completed his 35th year with what Hans Ross calls the Yee Pee. And that's all for now, be seeing you!

L. A. Basin API Meets

The meeting of the Los Angeles Basin Chapter of the American Petroleum Institute was held at Shell Recreation Hall in Long Beach on November 18, 1958.

The guest speaker was Mr. Wayne Harthorn, Shell Oil Company engineer, whose subject was "Automatic Custody Transfer." Automatic custody transfer is the transfer of hydrocarbons automatically in an unattended operation. Certain basic elements are required in any automatic custody transfer system to determine the cuts, gravities and gross measured fluid.

The measuring element may be one of two types—a positive displacing meter or a Weir tank. The trend is now toward the positive displacement meter which is similar in design and much less expensive. The Weir tank was also used and is still used in Texas mainly because Texas law requires transfers of hydrocarbons from a tank; however meters are now beginning to be used in Texas and are receiving acceptance in spite of the law.

A device for temperature correction of the volume measured is necessary. This is very simple with a positive displacement meter. It consists of an intergradient control to correct the recorded readings to 60°F automatically. When a Weir tank is used a temperature recorder is required.

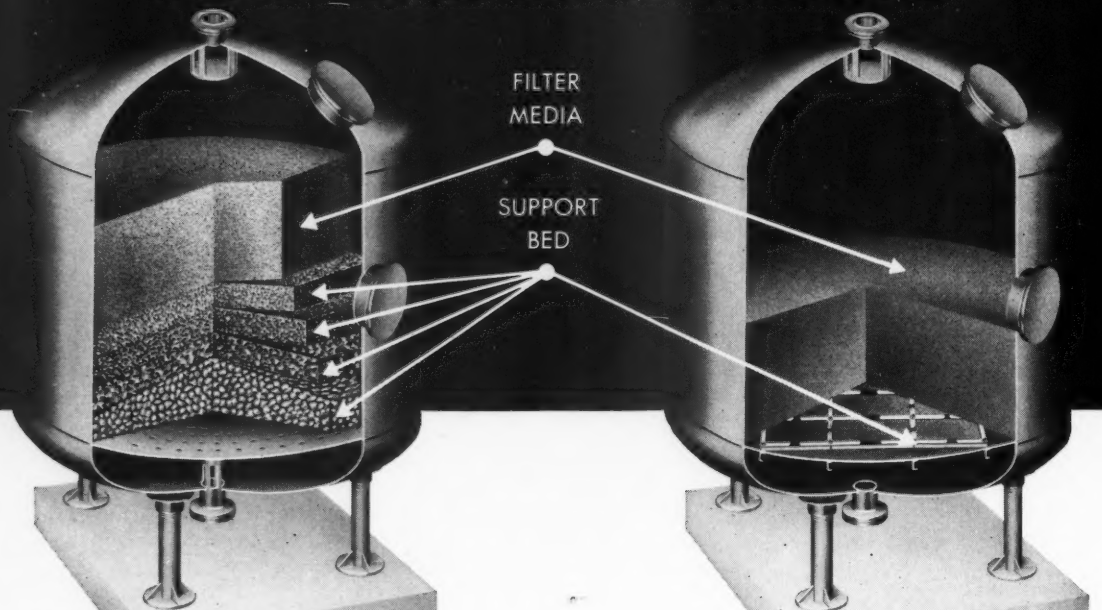
To date no satisfactory device for automatically obtaining gravities has been developed. Several accurate cut meters have been developed. Automatic samplers are used to check both cuts and gravities. For the positive placement meter, a calculated measuring tank is used to prove automatically transfer equipment. All controls are usually electrical.

The chief reasons for using ACT are spacing and money saving. Much less storage space is required. Three days of storage is about a minimum requirement of any manual system. For a lease of 200 to 1000 b/d production the manual system costs will exceed automatic custody transfer costs. $8,000 represents the minimum cost of any ACT system. Typical cost of the ACT system installed for a 2000-3000 b/d lease in the San Joaquin Valley is about $9,000.

Additionally, API gravity of production shipped through automatic custody transfer systems will generally be higher than that shipped through manual systems due to the shorter time the production sits in storage.

WHICH NATIONAL® FILTER?

FOR OVER 20 YEARS, NATIONAL HAS OFFERED A CHOICE OF FILTERS FOR WATER FLOOD AND WATER DISPOSAL INSTALLATION.



NATIONAL'S MULTIPLE ORIFICE BED PLATE DESIGN WITH MULTIPLE GRADED BED.

NATIONAL'S PERMEABLE BED PLATE DESIGN WITH SINGLE FILTER BED.

POINTS OF COMPARISON

CAPACITY: (The same in either type with comparable filter-media and operating conditions) Filtration capacity of Rapid Mechanical type filters (either type shown) is affected by fineness of top layer filter bed media, and porosity of filter cake collected on the bed. **Supporting Structures merely support the filter-media beds and neither one affects the capacity of the filter.**

PRESSURE DROP: (Essentially the same in either type) Within the operational capacities of either type filter, the pressure drop thru clean filters after backwash cycle is less than six (6) inches of water. Pressure drop increases with fineness of top layer of filter bed media and filter cake deposition.

BACKWASH RATES: (The same for either type when the filter-media is the same material) Backwash rates should be ample to expand the fine media section by at least fifty (50) per cent. **Supporting structures are not disturbed at such rates.**

QUALITY OF FILTERED WATER: (The same thru either unit when using same filter-media) Quality of water is associated with filtering ability. Filtering ability has to do with fineness of top layer filter bed media and porosity of filter cake. The finer the media, the better the quality of water. **Supporting beds have no measurable effect on the quality of water.**

ECONOMICS OF THE TWO TYPES: This is best determined after knowing the type media to be used. The permeable bed plate type filter (Illustration Right) can be fabricated with a shorter overall vessel height. If this is of prime importance then that is the controlling factor and not the related media costs. Usually, the first costs and up keep of the graded bed type are less.

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ASSOCIATION AFFAIRS

P.E.S.A. District Dates Set

The dates and locations for three of the four annual district membership meetings of the Petroleum Equipment Suppliers Association for next year have been annnounced by H. R. Safford, Jr., P.E.S.A. Executive Secretary.

Pacific District meets in the Ambassador Hotel in Los Angeles March 3rd. District Chairman is H. H. Peters.

On March 11th, the Southwestern District, under the chairmanship of F. L. Hereford, meets in the Shamrock Hilton Hotel in Houston.

On March 18th, the Eastern District meets in the Duquesne Club in Pittsburgh. J. G. Seiler is Chairman of the Eastern District.

Program plans for these meetings are to be announced by the district chairmen at a later date.

Two committees have been established by the Petroleum Equipment Suppliers Association. One is to make a study on directorships and another is a special group which will nominate the next association vice president.

The Study Committee on Directorships is headed by M. E. Montrose. Its responsibility is to study the present setup of P.E.S.A. directorships as to geographical distribution, representation as to function of company, and to recommend any necessary changes in the association by-laws.

Other members are A. W. McKinney and Mason Jones, Eastern District; Davis D. Bovaird and Grover Kilgore, Mid-Continent and Rocky Mountain District; F. L. Hereford and Elliot A. Johnson, Southwestern District, and Ted Sutter and H. H. Peters, Pacific District.

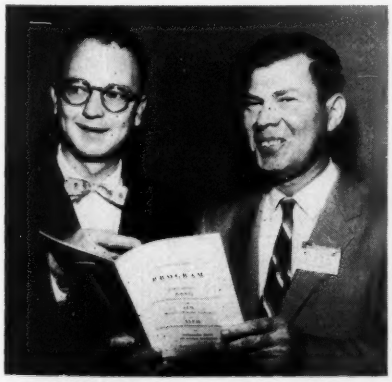
Chairman of the Vice Presidential Nominating Committee is W. T. Powell. Members are W. D. Wilson, Rainey Elliott, Grover Kilgore, M. E. Montrose and J. A. Crawford.

NOMADS INTERNATIONAL COMMITTEE FOR TULSA OIL SHOW MEETS

Plans for handling the largest contingent of international delegates ever expected to attend the International Petroleum Exposition in Tulsa May 14-23, 1959 were perfected by members of the Nomads committee representing all chapters during the API meeting in Chicago.

Members of the committee representing Tulsa, New York, Dallas-Forth Worth, Houston and Los Angeles chapters are as follows: Seated, L. to R., M. F. Delano, S. R. Stokvis & Sons, New York; Henry W. Pullman, Baker Oil Tools, Los Angeles; R. K. Franklin, Rolo Manufacturing Co., Houston; and Don Collins, Republic Supply Co., Tulsa, Chairman. Standing, Harry E. Estes, Oil Well Survey Inst., Houston; Ted W. Mayborn, Drilling Magazine, Dallas; E. E. Andreason, Andreason-Lundberg Corp., New York; and Bill Davidson, W. C. Norris Manufacturing Co., Tulsa.

Collins, chairman of the committee, stated that early indications are that approximately 2,000 oil men from countries other than U.S. and Canada will attend the I.P.E.

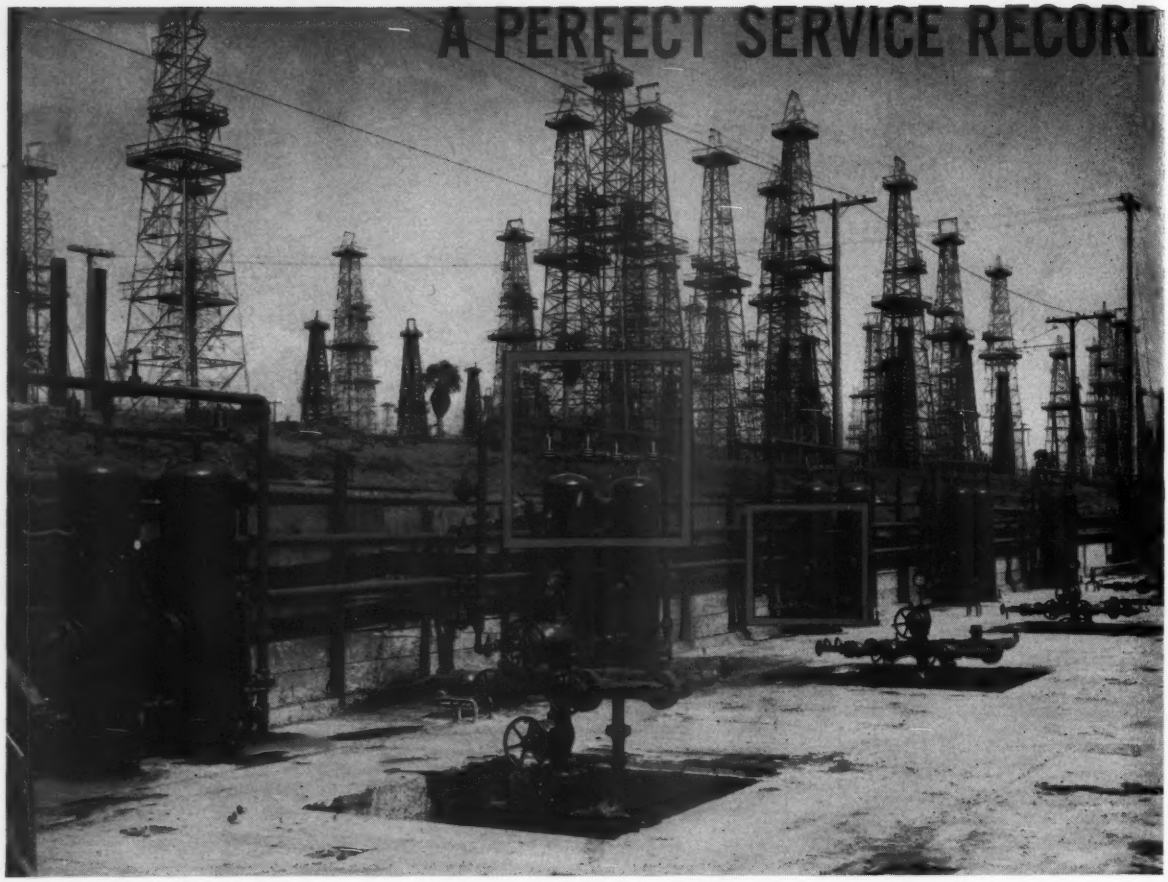


1959 OFFICERS OF PACIFIC SECTION—SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS

Left—Charles W. Carey, President, Union Oil Company; right—Alvin A. Almgren, Secretary-Treasurer, Superior Oil Company.

1959 OFFICERS OF PACIFIC SECTION—SOCIETY OF EXPLORATION GEOPHYSICISTS

Left to right—T. L. Slaven, Editor, Western Geophysical Company; John P. Gates, Southern Area Vice President, Western Gulf Oil Company; W. P. Wilson, Northern Area Vice President, Western Gulf Oil Company; Robert B. Moran, Jr., President, Moran Instrument Company; Nolen A. Webb, Secretary-Treasurer, Richfield Oil Corporation.



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TYPE **RV, DV** AND **LV** RELIANCE VALVES

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Personalities IN THE NEWS

R. P. Corlew

C. R. McKay

Richfield Appoints New Refineries Manager

R. P. Corlew has been appointed Manager of Refineries for Richfield Oil Corporation. He succeeds **C. R. McKay,** who has retired after 21 years in that post.

Corlew, who will direct operations at Richfield's 130,000 b/d refinery at Watson, is a graduate of the Colorado School of Mines. He started with Richfield as a technical assistant in 1938 and has held positions including process engineer, superintendent of light oil operations and assistant manager.

McKay is a veteran of 35 years in the oil business. In 1937 he became Richfield's manager of refineries and has held that position until the present, directing expansion of the Watson refinery from a capacity of 50,000 b/d in 1937 to its present size.

In addition to appointment of the new manager, Richfield announced promotion of two other refining executives. **E. H. Reynolds,** formerly Superintendent of Operations, has been named Assistant Manager of Refineries — Operations. **Frank J. Fontana,** formerly Chief Engineer, has been appointed Assistant Manager of Refineries—Maintenance and Construction.

Spang Elects New President

Frank E. Rath has been elected President of Spang & Company, Butler, Pa., manufacturers of drilling tools. He moves up from the dual position of Executive Vice President and Treasurer, succeeding the late **Ferd J. Spang.** Prior to joining Spang & Company in 1949, he was chief engineer of the Duquesne Works of U. S. Steel at Duquesne, Pa.

Mr. Rath is a graduate of Carnegie Tech, Pittsburgh and upon graduating in 1935, joined the research department of U. S. Steel. Later he was transferred to various engineering assignments in the Company's plants in Youngstown and the Pittsburgh district.

F. E. Rath

Walt Curlee

H. C. Smith Oil Tool Appoints Administrative Assistant

Appointment of **Walter Curlee** as administrative assistant to **Arthur S. Marshall,** vice-president-sales of H. C. Smith Oil Tool Co., has been announced. For the past 2 years, Mr. Curlee has been chief industrial engineer for the company. He is a member of the Los Angeles Basin Chapter of the API and is a member of the San Gabriel Chapter of the American Institute of Industrial Engineers.

Eastman Consolidates and Appoints New Executives

Better service to the customer and greater efficiency of operation were objectives sought by the management of Eastman Oil Well Survey Company in the recent consolidation of the former Central Division with headquarters at Dallas and the Gulf Coast Division into a new Southern California.

Division headquarters will be in Houston, under the direction of **H. L. Moschel,** former Central Division manager, who is moving from Dallas to Houston immediately. Hal Moschel was elected vice president at a recent meeting of the company board of directors. He has held positions of responsibility with Eastman for more than ten years.

Stephen S. Roszel, Jr. has been named general sales manager according to a recent announcement by **H. John Eastman,** president of Eastman Oil Well Survey Company. Formerly assistant general sales manager, he has had a diversified background of oilfield experience. Immediately following World War II, in which he served as a pilot in the Air Force, Roszel entered the field of amphibious air transportation for tideland and offshore drilling operators. He spent several years as a pilot with the drilling and production department of a major oil company on the Gulf Coast, following which he went into land work and did leasing, title work, and assembling blocks of land for drilling.

H. L. Moschel

S. S. Roszel, Jr.

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Coupled with our faster perforating service, Oil Tool gravel pack liners are made to your exact specifications, with gravel thoroughly vibration compacted to insure uniform porosity. Specialized equipment, experienced manpower and any kind of tubular service you desire . . . day or night. That's what we mean by service is Oil Tool.
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Personalities Continued

John Merritt Now President of BJ Service

John B. Merritt has been named president and chief executive officer of BJ Service, Inc., a Borg-Warner subsidiary. The announcement was made at a directors' meeting of this oil well service company.

Merritt has been executive vice president and general manager of BJ Service since 1951. He began his career within the Byron Jackson organization in 1941 and has had thorough field and executive training in various phases of BJ operations. Immediately previous to his move to BJ Service, Merritt was general manager of Byron Jackson's oil field and industrial rubber division.

Welex Promotes Three To New Posts

Recent promotion of three men to the newly created post of Assistant to the Vice President of Sales has been annnounced in Fort Worth by Welex, Inc.

New Assistants to the Vice President of Sales in Houston are **G. K. Harcourt,** former special salesman at Tulsa, and **J. W. Lyon,** former division sales manager at Houston. Promoted to the same position in Tulsa was **R. B. Burns,** former Tulsa division sales manager.

Harcourt has ten years' experience in oil well service work and has been with Welex for one year. He is a graduate of Baylor University at Waco, Texas, and is a native of San Antonio, Texas.

Lyon has been with Welex since December, 1955, and has 22 years' experience in oil well service work. A native of Longview, Texas, he attended the University of Texas at Austin.

Burns has been with Welex for the past nine years. He is a native of Oklahoma City and a graduate of the University of Oklahoma at Norman.

All three men are members of the American Petroleum Institute and A.I.M.E.

Wireco Appoints Southern California Representative

Lee Burgess, vice president of Wire Rope Corporation of America, St. Joseph, Missouri, announces the appointment of **Lev Sacre** as manufacturer's representative of Wireco products. The firm manufactures wire rope for drilling, construction and many industrial uses as well as grips, slings and other accessory elements.

Lev's business address is 2639 So. Garfield Avenue, Los Angeles 22, telephone RAymond 3-8451 or PArkview 8-7317.

The company's California plans include the construction of a warehouse in Los Angeles in the near future for the carrying of appropriate stocks in the Southern California area.

B and W Inc.
A Good Combination for a GOOD CEMENT JOB
B and W MULTIFLEX SCRATCHER
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102

American Meter Elects Vice President

The election of **James A. Dayton** as Vice President-Manufacturing of American Meter Company, was announced by **William G. Hamilton,** Jr., President. Mr. Dayton is in charge of the manufacturing, methods & tooling, engineering and industrial relations departments and for manufacturing operations producing measurement and control equipment in American Meter plants throughout the United States.

Prior to joining American Meter Company, Mr. Dayton served as a director, executive vice president and secretary of Turner & Seymour Manufacturing Company. He was formerly associated with American Bosch Company, Lux Clock Company, Skinner Motors, Inc., and Dayton Manufacturing Company.

Union Makes Changes

C. Haines Finnell has been appointed Manager of Retail Marketing for Union Oil Company of California. In that capacity, he will be responsible for retail sales activities of the Company in its principal marketing area of the ten western states and Hawaii. Formerly Director of Public Relations and Advertising, Mr. Finnell has had previous sales experience with the Company as Manager of Eastern Continental sales.

Jerry Luboviski has been appointed Director Public Relations and Advertising for Union Oil Company of California. He had been manager of Public Affairs for the Company. A former southern California newspaperman, Mr. Luboviski had been City Editor of the late Los Angeles Daily News and the San Diego Daily Journal. Before joining Union Oil he had been manager of Public Relations for the Western Oil and Gas Association.

FOR SPECIAL CONDITIONS...

HALLIBURTON SPECIAL TOOLS!

A size and a type . . . "patterned" particularly to your needs—for better production improvement among many other benefits . . . is available with Halliburton Special Tool Services.

The selection and placement of Special Tools is determined by a skilled Halliburton operator who knows their design and purpose, and the operation of tools selected for your well problem.

For Special Problems, Such As . . .

- Squeeze Cementing
- Formation Fracturing
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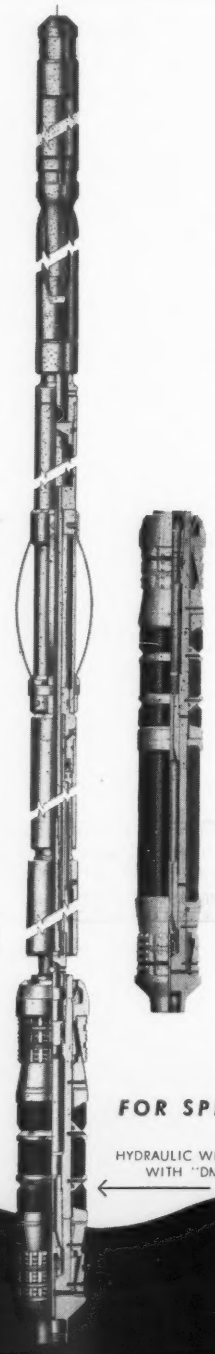
- Casing Leaks

Halliburton has Special Tools designed for you . . . bringing you the advantage of better and more successful operation, whenever they are used.



HYDRAULIC WIRE LINE SETTING TOOL WITH "DM-DC" BRIDGE PLUG

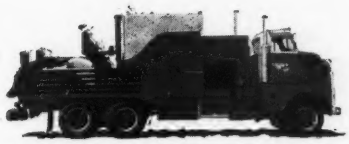
HYDRAULIC WIRE LINE SETTING TOOL

A dependable and highly accurate setting tool that saves time and cost in setting Packers and Plugs . . . also reduces special footage and set-up charges. May be used in wells with or without fluid, as the hydraulic fluid necessary to operate it is carried in the tool. Only requires a light duty wire line or cable to set packer even with a 30,000 lb. tension sleeve . . . a few short up and down movements of the line on which setting tool is run operates a hydraulic pump inside supplying the required setting force. Available for use with Halliburton "DM-DC" Bridge Plugs, "DM-DC" Squeeze Packers, Wire Line Bridge Plugs and "CL" Production Packers.

OPEN HOLE DRILLABLE SQUEEZE PACKER

Used extensively in open hole formations that are near to true bit size. Identical to "DM-DC" Squeeze Packer except for addition of extension mandrel and a long rubber seal element. Setting same as regular squeeze packer, except, cannot be set on any type wire line Setting Tool.

HALLIBURTON TOOLS . . . MOST ADVANCED FOR SPECIAL PURPOSES



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"Continue to look to HALLIBURTON for the BEST in SPECIAL TOOLS"

HALLIBURTON "DM-DC" DRILLABLE SQUEEZE PACKER

Designed to provide positive fluid shut-off from either direction . . . regardless of depth or pressure. Forms an effective plug for squeezing cement or placing chemicals below packer at selected point behind casing or liner, around shoe or shoe joint . . . Easy to set on drill pipe, tubing, drilling or sand line or with electric wire line Powder Type Setting Tool. Outstanding operational features include simplified setting procedure . . . positive mechanical action of rotating tubing to the right . . . freedom of Tubing and Circulating Valve from packer before squeeze begins. After packer is set, can become a Bridge Plug, when Sealing Plug or Ball is dropped or pumped in place.

HALLIBURTON DRILLABLE TYPE "C" PRODUCTION PACKER

Adaptable for single or dual zone well completions . . . is full opening and highly adaptable for fracturing work . . . when set in casing on tubing, well can be treated . . . perforated . . . and squeezed below if desirable before well is placed on production . . . *all in one trip* saving you time and money.

HALLIBURTON "RTTS" PACKER

The Retrievable Test-Treat-Squeeze Packer is the industry's most efficient multi-purpose tool; designed for testing, treating and squeezing operations. Permits combination high pressure treating and squeezing applications *with only one trip into the hole.* Equipped with full-opening fluid passage and incorporates circulating valve and safety joint.

HALLIBURTON "HM" RETRIEVABLE PACKER

A hook wall type packer run on tubing in a cased hole to provide a seal above the section to be fractured, acidized or tested for production. Allows large volumes of fluid to be pumped through tool with minimum pressure drop. Set by weight of tubing; released by picking up . . . hydraulic slips prevent movement of packer up the hole . . . can be set and reset for multiple treatments as many times as desired without coming out of the hole.

TYPE "C" PRODUCTION PACKER

"HM" RETRIEVABLE PACKER

"DM-DC" DRILLABLE SQUEEZE PACKER

"RTTS" PACKER

Personalities Continued

Tidewater Promotes Three

Three executive promotions have been announced by Tidewater Oil Company. **Irving E. Chapman** was named executive assistant to **John E. Roth,** senior vice president and director. **Robert C. Hadden** was named executive assistant to **Charles R. Brown,** western division vice president and general manager. **Walter I. Weed, Jr.** was named supervisor of the western division oil purchase and exchange department. He will manage oil purchase and related supply activities for Tidewater in the seven western states and Hawaii. Hadden succeeded to the post formerly held by Chapman, while Weed was advanced to the position previously occupied by Hadden.

G P Makes Executive Changes

Changes in executive positions in General Petroleum Corporation's production department were announced recently by **R. O. Swayze,** vice president and director of production.

Aldon L. Hair, Rocky Mountain division superintendent with headquarters at Salt Lake City, will retire December 31. He will be succeeded as superintendent by **J. J. Browne,** special assistant in the company's Los Angeles home office.

P. M. Barry, assistant to the superintendent of the southern division at Santa Fe Springs, has been appointed special assistant in the Los Angeles office.

W. G. Christensen, petroleum engineer at Bakersfield, will become assistant to the manager of joint venture operations in Los Angeles.

Texaco Appoints Aine Los Angeles Superintendent

Los Angeles, Dec. 1—**W. B. Logan,** manager of Texaco's Pacific Coast Refining Division, has announced the appointment of **E. E. Aine** as Superintendent of Texaco's Los Angeles, Calif., Works, effective December 1.

Mr. Aine, now Assistant Superintendent of Los Angeles Works, succeeds **W. J. Ryan,** who will retire under the Company's retirement plan.

Mr. Logan also announced that **George Louis,** Supervisor of the Crude Still Area at Los Angeles Works, will succeed Mr. Aine as Assistant Superintendent there.

Ladish Announces New L. A. Personnel

Ladish Co. has announced the appointment of **Herbert L. Pehrson** as General Sales Manager of the company's Ladish Pacific Division with headquarters in Los Angeles, California. For the past 11 years, Mr. Pehrson has served Ladish Co. as Manager of West Coast Sales, supervising sales of the company's complete line of pipe fittings. In his new capacity, Mr. Pehrson will also direct marketing of Ladish drop forgings, rolled rings, corrosion resistant valves, sanitary fittings and valves, industrial and sanitary pumps, saw blades, tool steels, abrasive grinding and cutting wheels.

The Ladish Pacific Division maintains manufacturing, engineering and metallurgical laboratory facilities and sales headquarters in Los Angeles with branch sales offices in San Francisco, Seattle and San Diego.

How Long Distance makes money and saves money for business

Telephone is main ingredient in mushroom sales

says Roland E. West, President, **West Foods of California,** producers of famous "Shady Oak" mushrooms

Photographed at the Sheraton-Palace Hotel

"We ship an average of three tons of fresh mushrooms every day," says Mr. West, "and *all* are sold by phone. So you can see why we consider the telephone a basic ingredient to successful selling." As proof of their success, Western Foods is the world's sixth leading producer of mushrooms.

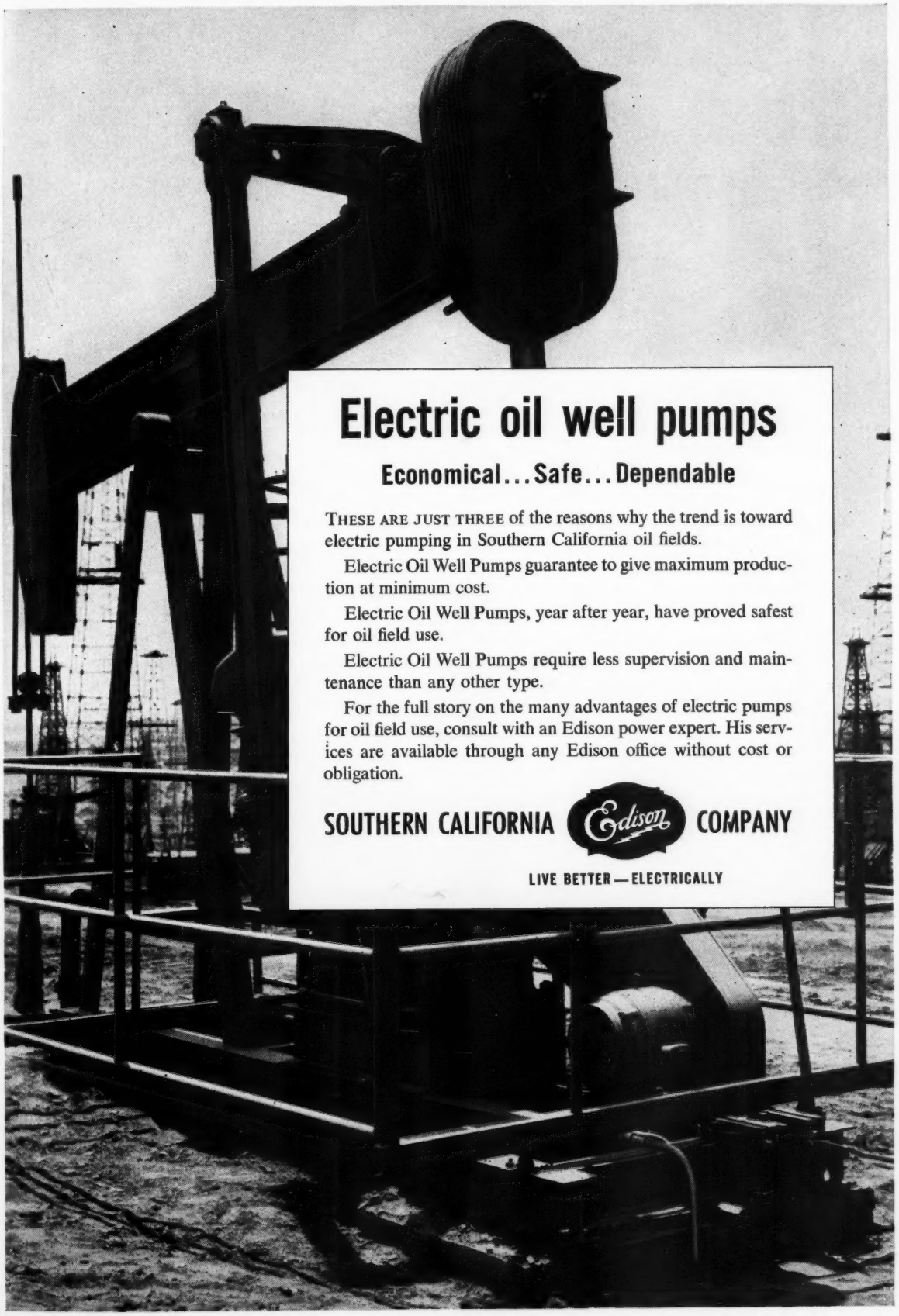
No matter what your product or where your markets, the telephone can be an important sales tool — and your biggest sales producer. Let our Service Engineers show you how *low* long distance rates can mean *higher* profits to *your* business. Just call your telephone business office.

Typical, low Long Distance daytime rates

From	To	First 3 Minutes	Add'l. Minutes
Los Angeles	New York	$2.50	.65
Seattle	Santa Fe	2.05	.55
Portland	Minneapolis	1.90	.50
San Francisco	Salt Lake City	1.35	.35

(Weekday, station-to-station rates, excluding tax.)

Pacific Telephone


Electric oil well pumps
Economical... Safe... Dependable
THESE ARE JUST THREE of the reasons why the trend is toward electric pumping in Southern California oil fields.
Electric Oil Well Pumps guarantee to give maximum production at minimum cost.
Electric Oil Well Pumps, year after year, have proved safest for oil field use.
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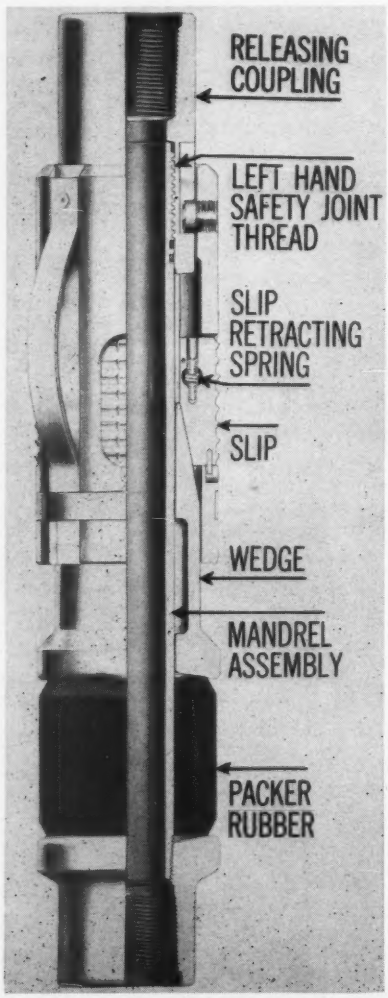
For the full story on the many advantages of electric pumps for oil field use, consult with an Edison power expert. His services are available through any Edison office without cost or obligation.
SOUTHERN CALIFORNIA Edison COMPANY
LIVE BETTER—ELECTRICALLY

Treating Packer

The new Halliburton R-3 Treating Packer provides an effective and economical method for treating, water flooding or producing. The tool is short, compact and retrievable. The full opening packer is designed to run on tubing into a cased hole to isolate a section to be treated or produced in oil, gas or water injection wells.



Halliburton R-3 Treating Packer

This economical packer, built to withstand up to 5,000 psi working pressure differential, may be run repeatedly. It consists of a packer rubber, drag springs and mechanical slips mounted in a sleeve, plus a J-slot locking arrangement. A full opening mandrel permits passage through the tool of any equipment that will normally pass through the tubing.

The tool is designed to run primarily as a tension packer, where the packer is set by turning to the right and applying an upward pull on the tubing. This sets the mechanical slips and thus anchors the tool in place. The action also expands the packer rubber against the casing wall to provide a seal. Any need for tubing hold-down is eliminated since the tool is self-anchoring against bottom hole pressures. Unseating the packer is a simple operation involving lowering the tubing to reengage the automatic J-slot locking mechanism.

Design of the tool permits use of the packer at shallow depths where insufficient tubing weight is available to set in compression a conventional hook wall type packer. If the tool should become stuck, a safety joint in the tool allows disengagement by right hand rotation, leaving only drillable material in the hole.

Further information available by writing Halliburton Oil Well Cementing Company, Duncan, Oklahoma.

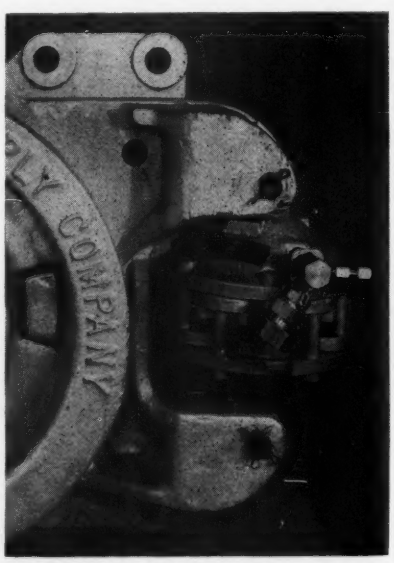
Sensing Element Features M-D Type FS Weight Indicator

The Martin-Decker Type "F" Weight Indicator, for years the drilling control standard for medium sized rigs, is now available for the first time with the Company's famous "Sensater" sensing element as an integral part of the wire line anchor.

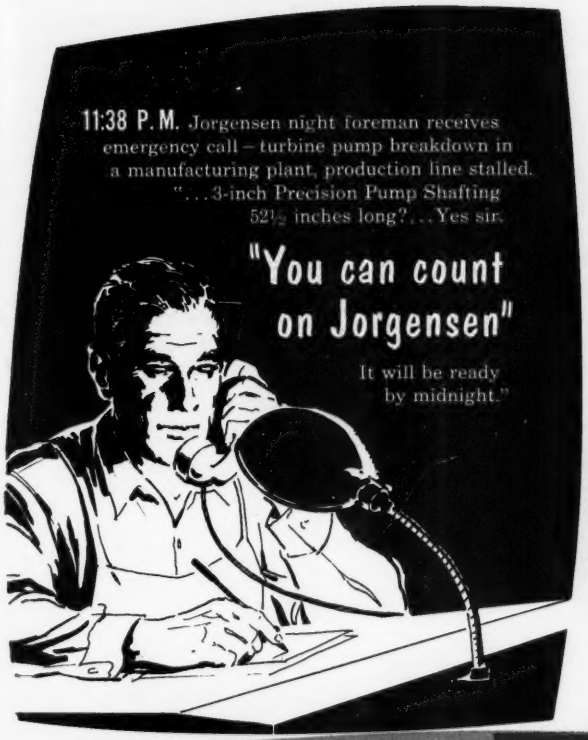
The new model, known as the Type "FS," now combines all the accuracy and sensitivity advantages of the larger Martin-Decker Type "E" and "D" Weight Indicators which have been used for many years by drillers in every drilling area of the world.

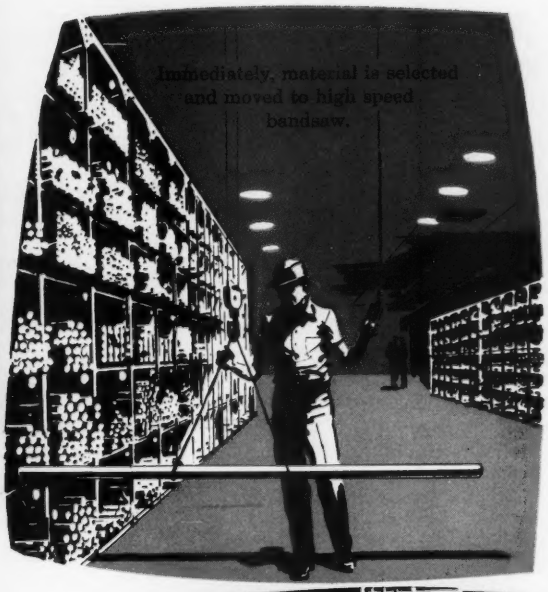
The "Sensater" realizes every weight change immediately, no matter how small. The strong competition in the medium drilling range makes the Type "FS" the best insurance for an operator to get the best use of all drilling time. The rugged, nylon reinforced "Sensater" diaphragm is substantially unaffected by temperature changes. It derives its outstanding accuracy and sensitivity from a specially designed and patented diaphragm which makes a stroke similar to a piston's travel, but with a minimum of friction.

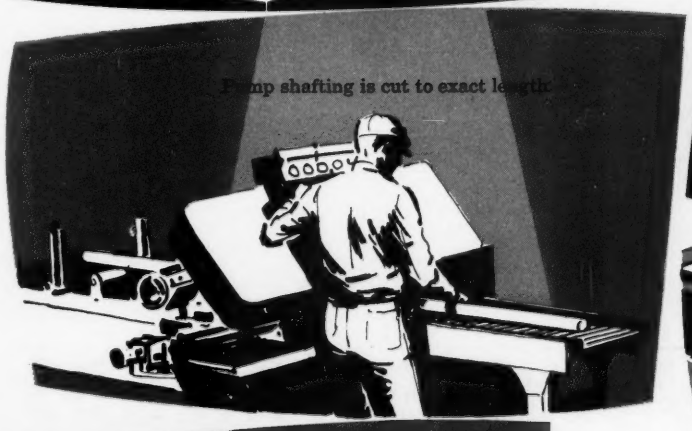
A copy of Martin-Decker's new catalog of drilling control instruments is available upon request.

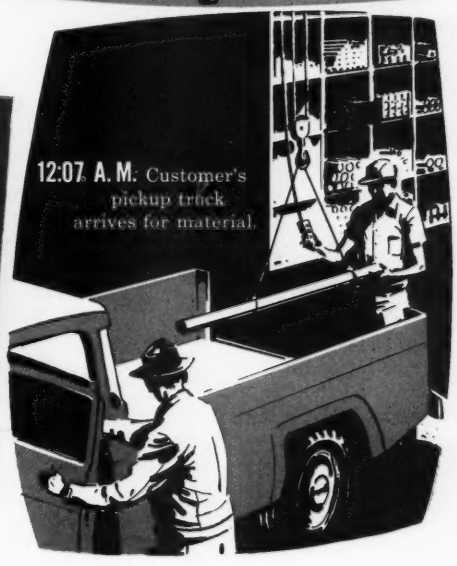


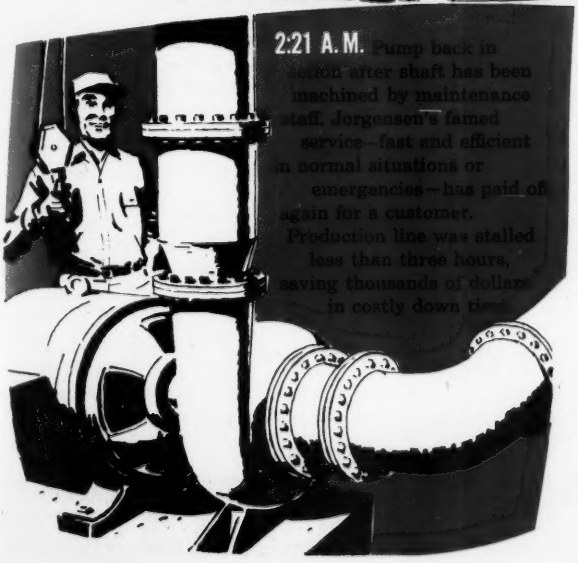
The Martin-Decker Type FS sensing element is an integral part of the wire line anchor.


11:38 P.M. Jorgensen night foreman receives emergency call – turbine pump breakdown in a manufacturing plant, production line stalled. "... 3-inch Precision Pump Shafting 52½ inches long?... Yes sir.
"You can count on Jorgensen"
It will be ready by midnight."








2:21 A.M. Pump back in operation after shaft has been machined by maintenance staff. Jorgensen's famed service—fast and efficient in normal situations or emergencies—has paid off again for a customer. Production line was stalled less than three hours, saving thousands of dollars in costly down time.

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RIverside 1-1761

TULSA
7311 East Pine St.
TEmple 5-1511

Equipment Continued

"Slim Hole" Pump

A new subsurface pump with a 7/8" bore is now available for slim hold completions and stripper production from the Axelson Manufacturing Company, Division of U. S. Industries, Inc. This new pump is a miniature version of the Axelson SureSeal line—complete with clutch features—plus the added advantage of a Hevi-Well barrel tube. The pump is rated for 6,000-foot maximum depth. Other features of the pump include chrome-plated box end plunger, Axloy balls and seats, and top and bottom cup hold-downs. The largest diameter of the pump is 1.260 inches. The drift diameter of the 1¼" Non-Upset tubing is 1.286 inches.

Slim hole completions, with 2⅞" tubing as casing and 1¼" production tubing may very well offer a safe, economical method to produce low volume wells with substantial savings in completion costs and tubular goods. One-half inch sucker rods with one inch O.D. couplings can also be utilized for economical production.

Hughes Forms New Engineering Unit

To speed up and expand product development, Hughes Tool Company has created a Product Observation Division within the Product Engineering Department. R. R. Aulick, who has had extensive engineering experience with Hughes and for the past several years has directed the activities of the sales engineers in the Northern Region, heads the new division as manager. His headquarters will be in Houston.

Dr. Daniel J. Martin, Vice-President-Engineering, in announcing the formation of the new division, said that the engineers selected for it have had long and varied experience in the Hughes engineering organization, including work in the plant and in the field.

"Under this new set up," explained Dr. Martin, "the Product Division's regional field engineers will devote their time primarily to observing the performance of new or redesigned products in the field. Their reports and recommendations, based on on-the-spot observations, will not only be helpful in evaluating results, but will materially shorten the time required to get new products into production for general use."

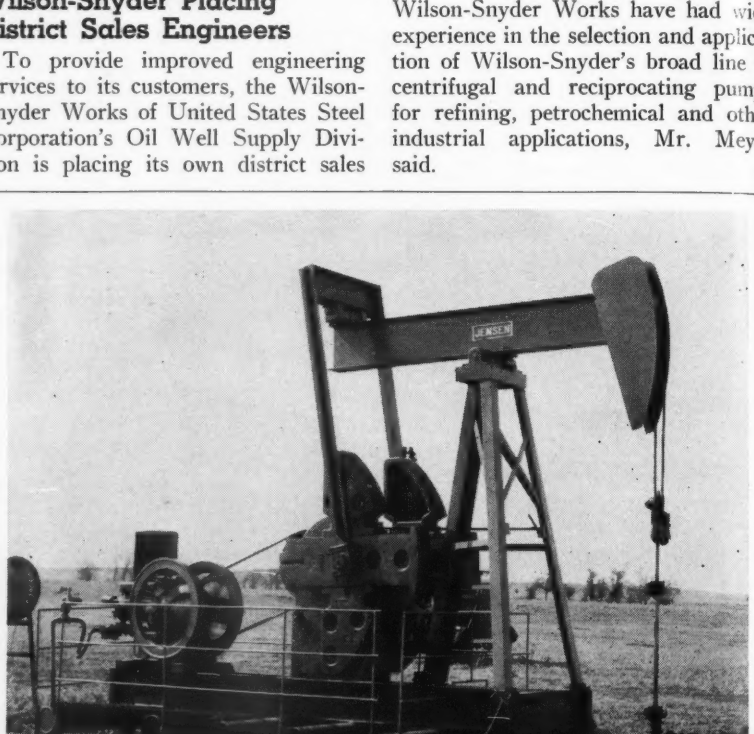
Also operating within the division will be a group of engineers who will be sent out from Houston on special assignments connected with product development.

Wilson-Snyder Placing District Sales Engineers

To provide improved engineering services to its customers, the Wilson-Snyder Works of United States Steel Corporation's Oil Well Supply Division is placing its own district sales engineers in six strategically located offices of Oil Well Supply, according to N. E. Meyer, manager of sales of Wilson-Snyder.

These offices are in New York, Chicago, Tulsa, Houston, Los Angeles and at the Braddock, Pa., headquarters of Wilson-Snyder.

The sales engineers representing Wilson-Snyder Works have had wide experience in the selection and application of Wilson-Snyder's broad line of centrifugal and reciprocating pumps for refining, petrochemical and other industrial applications, Mr. Meyer said.



MAKING FRIENDS
... in the oil patch

Oilmen everywhere are getting acquainted with JENSEN's new Rotary-Balanced Jack, engineered and designed to assure *extra years* of rugged, on-the-job service.
It's perfectly balanced to give you maximum efficiency at a lower cost. Long, smoother strokes—no matter how deep your well.
And it's the easiest of all to counterbalance. Just one man—standing on the ground—can adjust this new JENSEN JACK, *without* any special equipment.

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JENSEN JACKS

NEW LITERATURE

Tubing Anchor Brochure

The Baker Mechanical Compensating Tubing Anchor described prevents buckling and breathing; eliminates tubing and rod wear; increases pumping efficiency from 10 to 50 per cent. It eliminates tubing and rod failures.

The bottom portion of freely suspended tubing in rod-pumped wells buckles and straightens during every stroke of the plunger. Is it any wonder that sucker rods, tubing, and even the casing wear thin just above the pump; that volumetric efficiency of the pump is less than you figured? Moreover, one pump manufacturer estimates that nearly 70 per cent of all pump failures are due to tubing buckling.

This anchor works automatically in conjunction with the natural elongation of the tubing, to provide the precise amount of tension required to eliminate both breathing and buckling. And it's easy to run and retrieve.

For a copy, write Baker Oil Tools, Inc. P. O. Box 2274, Los Angeles 54, California.

Automatic Controls for Engines and Compressors

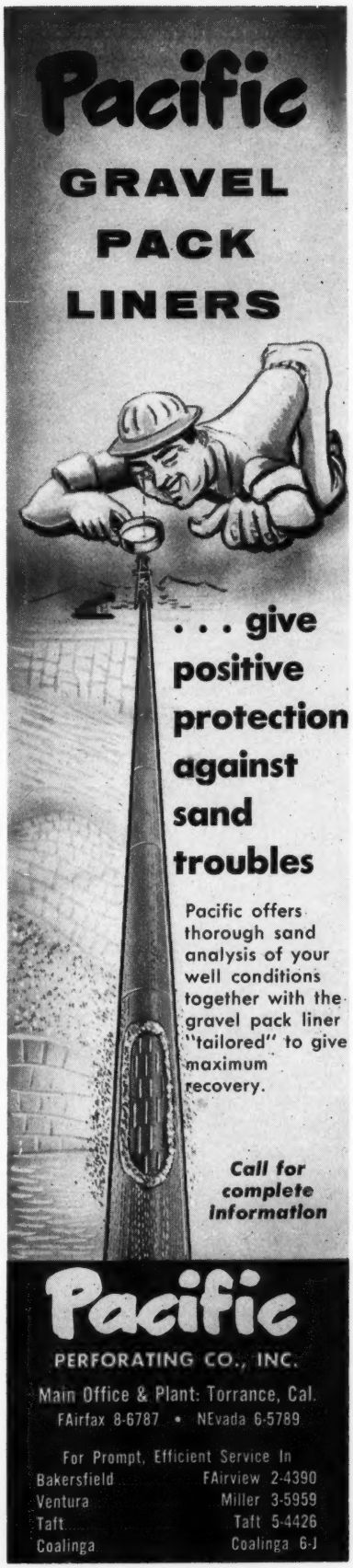
A new engineering application bulletin on automatic controls for engines and compressors has been prepared by The Cooper - Bessemer Corporation, Mount Vernon, Ohio. Entitled "En-Tronic Pipeline Control" it describes equipment for automatically starting, loading, capacity control, regulating and shutting down pipeline compressors. The "En-Tronic Control" equipment also applies to other types of power machinery such as gas, diesel and gas-diesel engines, as well as motor-driven reciprocating and centrifugal compressors commonly used for gas processing and air services. Write for Bulletin No. 87, The Cooper-Bessemer Corp., Mount Vernon, Ohio, Attention: Mr. F. L. Friedli.

Gasclok Power Drive

New literature, Bulletin 410, describing the Gasclok Power Drive, a completely self-contained air or gas powered instrument drive and timing unit, has just been issued by American Meter Company.

The Gasclock Unit is suited as either original or replacement equipment with all makes and types of recording instruments such as integrating orifice meters, gas lift meters, strip chart recorders and other conventional circular chart instruments. It is also said to supply a power output of more than 20 times the torque delivered by conventional spring-wound clock mechanisms.

Complete specifications and application details are included in Bulletin 410 which can be obtained from American Meter Company, Advertising Department, 920 Payne Ave., Erie, Pa., or from local American Meter offices throughout the country. In Canada, address requests to Canadian Meter Co., Ltd., Milton, Ontario.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Ventura Miller 3-5959
Taft Taft 5-4426
Coalinga Coalinga 6-J

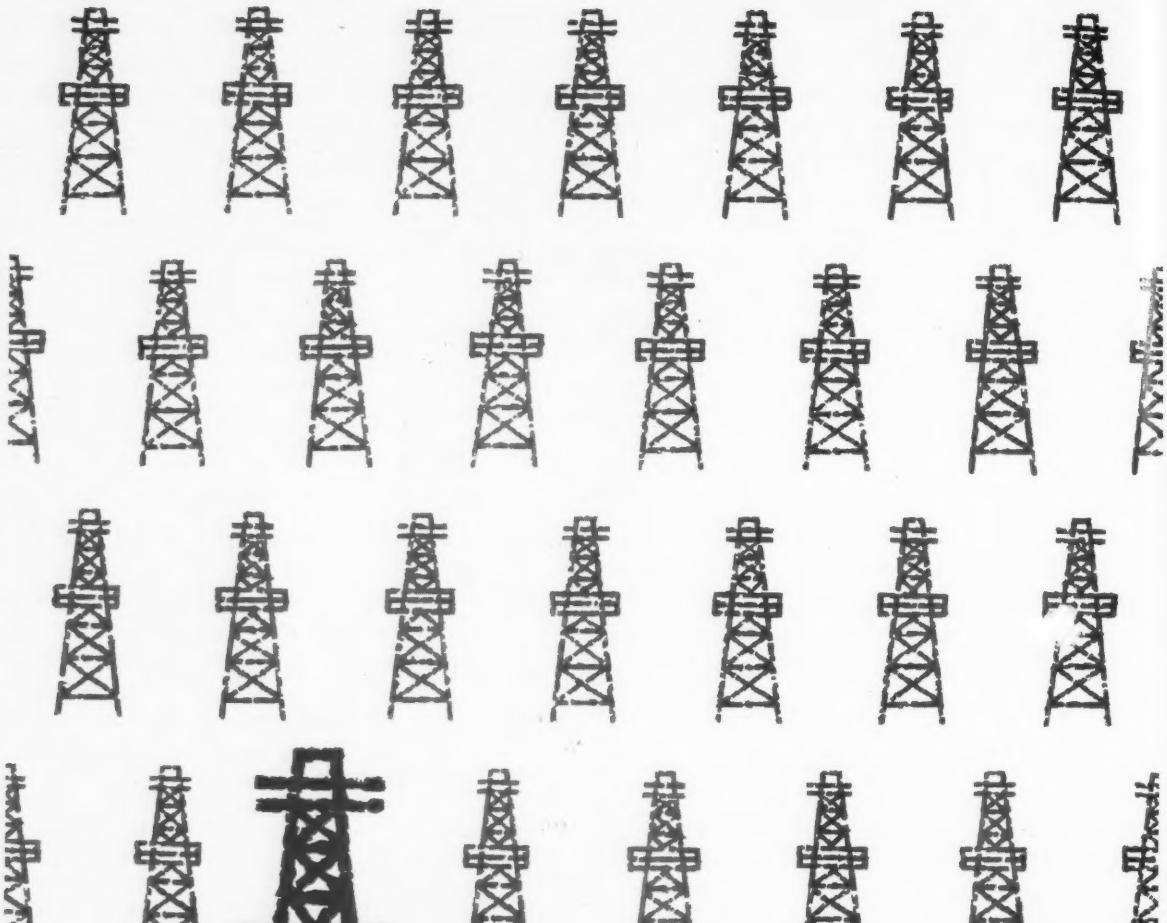
Industrial Burners

The new Iron Fireman series of AirRing industrial burners, with built-in fuel and air systems, is described in Folder No. 5807. These packaged units are available for gas, oil or dual fuel; natural or induced draft; Scotch or any other type of boiler. Detailed cutaway views, diagrams and photographs illustrate how the integral air register improves combustion and reduces installation costs by eliminating need for ignition arch, air tunnel, checkered combustion chamber or other underfloor construction. Dimensions are included. For folder write Iron Fireman Manufacturing Company, 3170 West 106th Street, Cleveland 11, Ohio.

Gas Turbine Bulletin

Just published by Clark Bros. Co., new illustrated Bulletin 167 details operating experience with the Mark TA 750/1000 kw gas turbine. Salient design features, types of fuels (natural gas, distillate, crude oil) plus applications in oil fields and process industries are throughly discussed. Also included is an assessment of the integrated turbine—boiler package and likely future trends in turbine application.

Copies of Bulletin 167 can be obtained by writing to Clark Bros Co., Olean, New York.



Whatever your well conditions—any depth, pressures to 20,000 psi or temperatures to 400°F—there is a Permanente Cement for the job. All types are available for "right now" delivery.

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Field Development

Pacific Coast and "4" Corners

LOS ANGELES BASIN

Texaco Orange County Test

The Texas Company has graded location for Cleaver No. 1 in Section 27-5s-11w. The test, scheduled to be drilled to 10,000 feet, is located one mile north of the Huntington Beach Field.

Las Cienegas Town Lot Test

Union Oil Company of Calif. is preparing a drill site for Union-Signal-Texam U-19 No. 1 in Section 35-1s-14w. The test is located north and west from the intersection of Western Avenue and 18th Street. Signal Oil & Gas Company and Guiberson & Burke have an interest in the development.

Hillcrest Country Club Completion

Signal Oil & Gas Company completed Signal-Richfield-Community No. 1 in Section 25-1s-15w flowing 600 b/d rate of 23 gravity clean oil from 650 feet of perforations near the 6800 foot level. Gas flow was 375,000 cubic feet per day. Total depth of the well is 8816 feet with 7" casing cemented at 7390 feet. Although the derrick is located on the Hillcrest Country Club, the hole was directionally drilled and bottomed under residential district north of the club.

Silver Lake Test

Richfield Oil Corp. is ready to spud Silver Lake Community A-1, a town lot test within the City limits. Location of the 6000-foot test is in the southwest quarter of Section 17-1s-13w, to the north and east of the intersection of Sunset Boulevard and Benton Way.

Vermont-Temple Test Abandoned

Guiberson and Burke plugged and abandoned Texam-Guiberson & Burke-Stolkin-Culter No. 1 located in the northwest quarter of Section 19-1s-13e, at a total depth of 6544 feet and a redrilled depth of 4100 feet. The test was bottomed in Granite.

Two Honor Rancho Completions

The Texas Company has completed two wells on the Honor Rancho, both in Section 7-4n-16w. Honor Rancho A No. 25 was good for 587 b/d of 36.8 gravity clean oil thru a 24/64" bean and Newhall No. C-5 was completed flowing 491 barrels per day of 33 gravity clean oil thru a 32/64-inch bean. Total depth of well No. 25 is 10342 feet with 7" casing cemented at 9780 feet. Newhall No. C-5 has a total depth of 11336 feet and a redrilled depth of 10881 feet. The 5" perforated casing is landed at 10881 feet.

Imperial County Test Drilling

In the Holtville area in Imperial County, Border Oil & Gas Company's Barbara No. 1 in Section 16-16s-17e is making hole ahead below 5375 feet.

Mahala Production Sold

James Michelin, W. H. Geis and Wm. N. Thornbury completed the sale of their Chino-Mahala property to the General Petroleum Corporation for a cash consideration of just under one million dollars. The property, located in Section 8-3s-8w, has eleven producing wells, good for 500 b/d, and five un-drilled proved locations. The wells have an average depth of about 2100 feet and gravity of the oil is 27 to 28 degrees.

SAN JOAQUIN VALLEY

Monterey County Wildcat Test

Six miles northwest of the San Ardo field, The Texas Company is drilling below 3000 feet on Ansberry-B well No. 1 in Section 10-22s-9e. The test will be drilled to approximately 6000 feet.

Midway-Sunset Abandonment

Texaco-Seaboard Incorporated has abandoned General Petroleum No. 54X-20 at a total depth of 5650 feet. The well, a southeasterly extension test, was located in Section 20-11n-23w.

Western Gulf Paloma Completion

Western Gulf Oil Co., Operator, completed Paloma Unit No. 32-11 flowing 450 b/d of 57 gravity clean oil through a 17/64" bean with 2850 psi tubing pressure and 3050 psi casing pressure. The well, a southerly flank test located in Section 11-32s-26e, was drilled to a total depth of 10198 feet and has 7" casing cemented at 10025 feet.

Strand Outpost Completion

Universal Consolidated Oil Co. completed Statex-KCL No. 45-13 in Section 13-30s-26e flowing 600 b/d from both zones each through a 13/64" bean. The Upper Zone is perforated from 7294-7297 feet & 7300-7320 feet and the Lower Zone is perforated at intervals from 8812-9604 feet.

San Emidio Nose Completion

Richfield Oil Corp. completed KCL-H No. 63-9 located in Section 9-11n-21w flowing 560 b/d of 33 gravity clean oil through a 14/64" bean. Gas flow was 300 mcf per day. Drilled to a depth of 12218 feet, the hole is plugged to 12020

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Any hole enlarging problem can be met economically with tools made by Grant. You may be opening a rat-hole off a whipstock... enlarging hole for the casing or production string... or underreaming for a thicker cement sheath. From a single source—Grant—you can get the right tool for the job at hand.

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feet and has 7" casing cemented at 11463 feet.

Tejon Hills Abandonment

Cliff Petroleum Company has abandoned Well No. 67-29 in Section 29-11n-18w after recovering muddy water on a formation test. Total depth of the test was 2046 feet and the section from 1957 to 1987 feet was redrilled and tested.

Hancock Abandons Canal Test

Hancock Oil Company has abandoned KCL No. 84-9, a wildcat test located 2½ miles northwest of the Canal Oil Field, in Section 9-30s-25e. The test was carried to a total depth of 10,655 feet, finding both the Upper and Lower Stevens sands non-productive.

Madera County Wildcat

Beach, Church and Bell, Bakersfield operators, have staked a location for Gill No. 1, a northwest extension test of the Gill Ranch Gas Field. The test will be drilled in Section 13-13s-15e.

North Tejon Completion

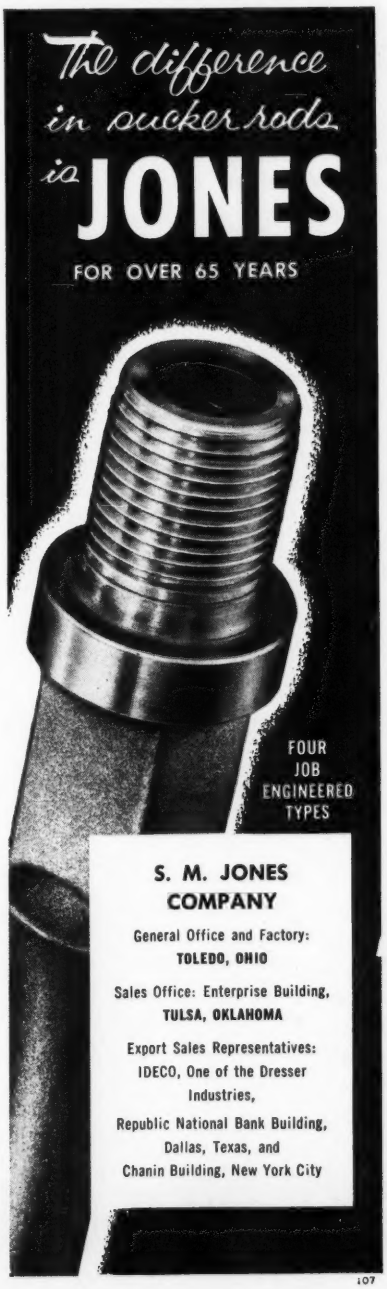
Richfield Oil Corp. completed ROC-KCL No. 63-24 in Section 24-11n-20w as a deeper pool Eocene discovery from the perforated interval 10914-11331 feet flowing 236 b/d of 52 gravity oil cutting 1.5 per cent. The well, a dual completion, flowed 305 b/d of 43 gravity oil cutting 0.2 per cent from the Z-1 Zone in the perforated interval 8620-8972 feet.

Fresno County Wildcat Test

General Exploration Co. is grading location for Noble No. 36-5 in Section 5-16s-18e. The test, located in the southeast-quarter of Section 5, is located three miles northwest of the Raisin City field, and will be drilled to approximately 7500 feet.

McKittrick Test Abandoned

One mile northeast of the McKittrick Front production, Standard Oil Company abandoned its Universal Consolidated-USL No. 18-4Z at a total depth of 6700 feet. Location of the test was in the southwest-quarter of Section 4-30s-22e.



Mount Poso Test Abandoned

In the Dominion area northeast of the Mount Poso field, Bishop-Mount Poso Oil Company abandoned S. P. No. 33-1 at a depth of 1487 feet in gray Vedder Sand, topped at 1480 feet. The test was located in Section 33-26s-28e.

Magunden Test for Texas

Four miles north of the Mountain View field, The Texas Company has graded location for Stevenson Estate No. 1 in the southwest one-quarter of Section 35-29s-28e. The test will be drilled to 8000 feet.

Buena Vista Extension Completions

Richfield Oil Corp. has completed ROCO-United-A No. 544 in Section 20-31s-23e flowing 375 b/d of 31 gravity oil cutting 0.1 per cent through a 13/64" bean. Gas production was 129 mcf. Depth of the well is 5550 feet with 7" casing cemented at 5089 feet.

Hononlulu Oil Corp. completed Calidon No. 10 in Section 19-31s-23e, a westerly extension test of the Stevens "555" Sand flowing at a 300 b/d rate of 31 gravity oil cutting less than 1 per cent water. The well was drilled to 5755 feet and has a bottom hole plug at 5604 feet. The 7" casing is cemented at 5244 feet and perforations open to production in the 5½" liner are at various intervals from 5398-5229 feet.

Union Abandons Bakersfield Test

Union Oil Company, after testing and salvaging the 7" casing, abandoned Oakstreet A-1 at a total depth of 7219 feet. The surface location of this test was in Section 26-29s-27e but the hole was directionally drilled under the residential section of Bakersfield.

COASTAL AREA

Summerland-Offshore Offset Test

Standard Oil Company of California is ready to spud its second test, Standard-Humble-Summerland State No. 1 on State Lease PRC 1824.1 in projected Section 2-3n-26w. Location for the test is 13 feet north and 7 feet east of its No. 1 discovery well, now shut in.

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Figure 110 Insulated Unions have proved their efficiency in thousands of installations. As reflected in certified tests, they are 100% effective under conditions that are many times more severe than will ever be encountered in actual service; the insulating gaskets are oil and gas resistant and have very high compressive strength; and the time-proved flat-face design provides a positive seal against all gas, fluids and vapors, at all pressures or vacuum.

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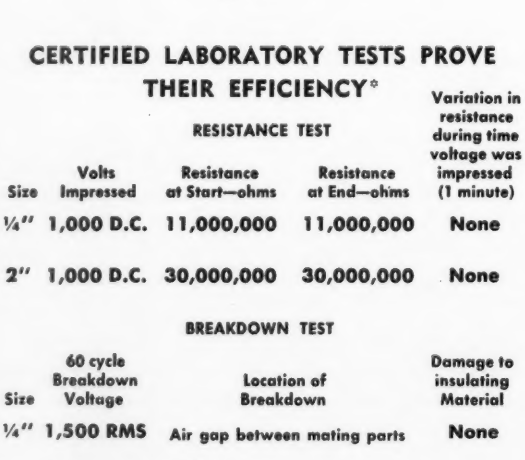

Figure 110

CERTIFIED LABORATORY TESTS PROVE THEIR EFFICIENCY*

RESISTANCE TEST

Size	Volts Impressed	Resistance at Start—ohms	Resistance at End—ohms	Variation in resistance during time voltage was impressed (1 minute)
¼"	1,000 D.C.	11,000,000	11,000,000	None
2"	1,000 D.C.	30,000,000	30,000,000	None

BREAKDOWN TEST

Size	60 cycle Breakdown Voltage	Location of Breakdown	Damage to insulating Material
¼"	1,500 RMS	Air gap between mating parts	None
2"	3,500 RMS	Air gap between mating parts	None

*By R. R. Crookston & Associates. Certified copies upon request.

California Representative

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South Gate, California

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Springville Dome Test Abandons

Franco Western Oil Company's Shell-Standard-Pierce No. 2 in Section 20-2n-21w has been abandoned at 6455 feet. An electric log was run and sidewall samples taken before abandoning.

Coal Oil Point Off-Shore Test

Approximately ten miles from Santa Barbara, Richfield Oil Corporation has announced a location for Richfield-Honolulu-Signal-State No. 309-2 in projected Section 6-3n-28w.

Naples Off-Shore Test

Off shore from the Naples Townsite and west of the Elwood Oilfield, Phillips Petroleum Company and Pauley et al have spudded and are drilling below 1500 feet on State 2205 E.T. No. 1, their first California off-shore test located in projected Section 14-4n-30w.

Oxnard Outpost Test

North of the Oxnard field, Cabeen Exploration Corp. is drilling below 2000 feet on Hunter-Power No. 1 in Section 31-2n-21w. The 7200-foot test is being drilled by Simpson & Harris Drilling Co.

Saticoy Wildcat For Shell

One and one-half miles southwest of the Saticoy Field production, Shell Oil Company is preparing to drill Varoni No. 1 in Section 2-2n-22w. The test will be drilled to approximately 8000 feet.

Off-Shore Gaviota Test Abandons

Standard Oil Company of California's Standard-Humble-Gaviota State No. 1 in projected Section 2-4n-32w near Gaviota, northwest of Santa Barbara, has been abandoned at a depth of 7748 feet. The well reportedly encountered encouraging shows of gas and was abandoned in a manner that will permit re-entry at a later date.

Ojai Wildcat

Ray Mustain, Operator, has staked location for Well No. 1 in the southwest corner of Section 1-4n-22w. This test is slated to go to approximately 1600 feet and the operator plans to start around the first part of December.

NORTHERN CALIFORNIA

Solano County Test Abandons

Kern Oil California Limited has abandoned Glide-Colby No. 1 near Denverton in Section 30-5n-1e at a total depth of 4730 feet, but due to stuck drill pipe, the hole was redrilled from 926 feet to 3902 feet. An open hole test from 3102-3142 feet resulted in a light gas blow and the discovery of mud and water.

Deep Test for San Joaquin County

In the Canal area, The Texas Company has staked location for River Investment No. 1 in Section 18-4n-5e. The well, a gas test, is about three miles east of the River Island Gas Field and is slated to go to about 10,000 feet.

Tehama County Abandonment

In the South Dome area, Buttes Gas & Oil Co., after unsuccessfully testing, has been abandoned at a total depth of 7989 feet. The test was located in Section 6-23n-2w two miles southeast of production.

Beehive Bend Gas Test

Cabeen Exploration Corp. is ready to spud A. A. Spooner No. 1, a 3500 foot gas test in Section 19-20n-2w in Glenn County. The test is located approximately 4000 feet west of production.

Humble Abandons Orland Test

Five miles southeast of the South Dome Gas Field, Humble Oil & Refining Co. has abandoned Raymo Alberico No. 1 located in Section 30-23n-2w. The test was drilled to 8049 feet before being abandoned.

San Joaquin County Completion

In the Vernalis area, Porter Sesnon et al and Great Basins Petroleum Company completed Sesnon-Vernalis Unit 3 No. 64-15 in Section 15-3s-6e as a dual completion, flowing 11,000 mcf/gas per day. Total depth of the well is 4206 feet with 5½" casing cemented at 4206 feet.

Maine Prairie Test Abandons

Arcady Oil Company has abandoned Liberty Farms No. 5-1 in Section 1-5n-2e. The test was drilled and cored to 6275 feet and an electric log was run before abandonment.

Sacramento County Gas Completion

In the Walnut Grove area, Standard Oil Company of Calif. completed McCormack-Williamson No. 3 flowing 3760 mcf per day through a 5/16" bean with pressures of 1388/1469 psi. The well, an extension test, is located in Section 36-5n-4e and was drilled to 4500 feet and cemented 5½" casing at 3820 feet with perforations from 3685 to 3693 feet.

The drilling crew on Long Beach Oil Development well J-113, Long Beach: Camay Drilling Company, contractor. Left to right, E. J. Kasey, tool pusher for L.B.O.L.; Forest Harrell, tool pusher for Camay; Rudy Tittle, driller; E. T. Hodges, cathead; H. F. Cormack, lead tong; G. L. Pearson, pipe racker.

CLIFFORD F. HOOD

Portrait by Fabian Bachrach

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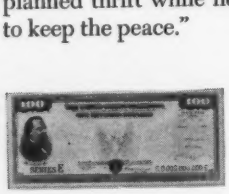

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OTHER STATES

State of Washington

In the Whidbey Island area in Island County, Standard Oil Company has abandoned Engstrom Community No. 1 at a depth of 7353 feet. The test was located in Section 17-30n-23e, approximately 25 miles northwest of the town of Everett.

State of Oregon

In the Lebanon area of Linn County the Linn County Oil Development Co. drilled to 4525 feet and has 5½" casing cemented at 4420 feet. A Schlumberger log indicated approximately 30 feet of gas sand at about 2300 feet and 20 feet of oil sand from 4300 to 4320 feet. The casing will be gun perforated opposite the showings for a test. The well is Barr No. 1 located in Section 32-11s-1w.

Cape Fairweather Area

In the Cape Fairweather area in Section 2-28s-34e, Colorado Oil & Gas Corp. and the Frankfort Oil Co. reached a depth of 10848 feet on their Yakutat No. 3 and is now redrilling at 10438 feet.

Kanatak Area

Humble Oil & Refining Company recovered the fish in Bear Creek Unit No. 1 in Section 36-29s-41w and is repairing the 7" casing. Total depth of the test is 12473 feet.

Fluor Gets Alaska Contract

The Fluor Corporation of Canada, Ltd. has been awarded two contracts by Alaska-Yukon Refiners and Distributor, Ltd. Total value of the work is approximately $1,000,000.

The first contract calls for the engineering and construction of a 3,000 b/d product separation and treating plant to be located at Haines Junction, Yukon Territory, Canada.

The second covers engineering and construction of a marine terminal and related facilities at Valdez, Alaska.

Engineer and design work is now proceeding and site survey and selection has been completed. Site clearing and grading will be accomplished in the immediate future and project completion is scheduled for the Spring of 1959.

FOUR CORNERS AREA

San Juan County— New Mexico

Humble Oil & Refining Company's Aztec-Z well No. 3 in Section 2-24n-10w drilled to a total depth of 5533 feet and plugging bottom to 5490 feet on a production test was good for 150 b/d of 41 gravity oil. Production is from two perforated intervals 5460-5446 feet and 5430-5410 feet.

El Paso Natural Gas Co. completed Story C well No. 11 as a dual gas well good for 3475 mcf/d from the Mesaverde and 3575 mcf/d gas from the Picture Cliffs. Located in Section 34-28s-9w, the well was drilled to 5475 feet and plugged to 5434 feet. Perforations are from 2990-3020 and 5248-5350 feet.

San Juan County— Utah

The Superior Oil Company completed Navajo C No. 24-31 located in the southwest quarter of Section 31-40s-25e, good for 570 b/d of 41 gravity clean oil through a 24/64" bean. Drilled to 5707 feet, the hole was plugged back to 5678 feet. The 7" casing is perforated at intervals from 5631-5476 feet.

The Texas Company completed Navajo P No. 10 in Section 3-41s-25e flowing 250 b/d through a 48/64" bean from the interval 5594-5563 feet. Drilled to 5710 feet, the well is plugged back to 5690 feet. The Texas Company has graded location for Navajo W No. 2 in the southeast one-quarter of Section 10-41s-24e.

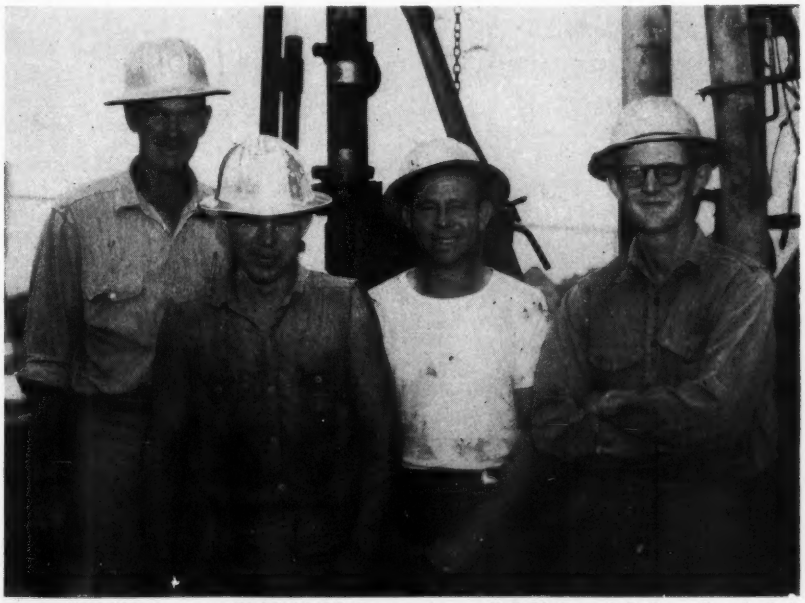
API Against Hike In Federal Gasoline Tax

The Board of Directors of the American Petroleum Institute has announced a firm stand against any further hike in the federal gasoline tax.

The API Board expressed concern over reports that an increase of as much as two cents a gallon in the present three cents a gallon federal gasoline tax may be recommended to Congress next year. There are indications that such a tax boost may be requested to meet deficits anticipated in the federal highway trust fund in fiscal years 1960 and 1961, the Board said.

"If all the money expected to be collected in subsequent years from highway user taxes were to be dedicated to road purposes, there would be adequate funds to finance the program without additional taxes on highway users," the Board declared.

State and federal gasoline taxes now average about nine cents per gallon for the nation as a whole, a levy equivalent to 41 per cent of the average retail price of gasoline. This tax burden is far out of line with that imposed on any comparable product in widespread use. Even luxury items are not subject to such heavy levies. It is an unjust burden on a selected group of taxpayers," the Board noted.



The well pulling crew on Richfield Oil Corporation well A-24, Parcel A, Long Beach. Left to right, Clyde Dawson, head well puller; Dick Lopp, floorman; Curtis Walding, floorman; Tom Tucker, derrickman.

THIS LAUGH OFF!!

Running after women never hurt anybody. It's the catching them that does the damage.

"Isn't it wonderful," purred the beautiful blonde as her Jaguar missed the first pump by three inches, "how the oil companies know right where to set up their pumps to get gasoline?"

It was a pompous and exceedingly impressive church wedding in Greenville. Down the aisle came a fragile and lovely society girl; a veil floated like a mist above her classic head, giving her an ethereal appearance.

As she approached the altar, the bride tripped over a flower-pot which contained a lily.

"That, she remarked daintily, "is a hell of a place for a lily!"

An exasperating matron had practically turned the store upside down and still hadn't bought a thing.

"Why is it," she snapped at last, "that I never get what I ask for in here?"

"Perhaps, madam," replied the clerk, "it's because we are too polite."

"You say Tony gave up his job as a traveling salesman just to please his wife?"

"Yes, it seems she wanted her Tony home permanent."

Women: One of the most deadly forms of bomb that we have. Drop one and see.

First angel: "How did you get here?"

Second angel: "Flu."

After inheriting his father's harem, the hesitant young sheik said, "It's not that I don't know what to do. I just don't know where to begin."

The preacher was finishing up his little talk on avarice: "And remember, friends, there will be no selling and buying in Heaven."

That's when an oil man on the back row got up and said: "Well, that's not where business has gone anyway."

The few husbands who would rather make love to their wives than eat are the husbands whose wives are lousy cooks.

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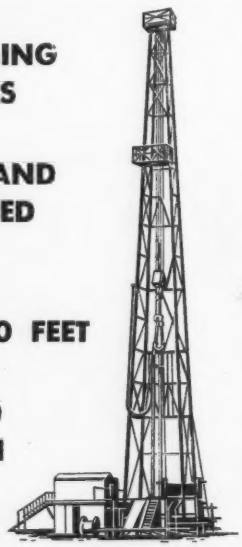

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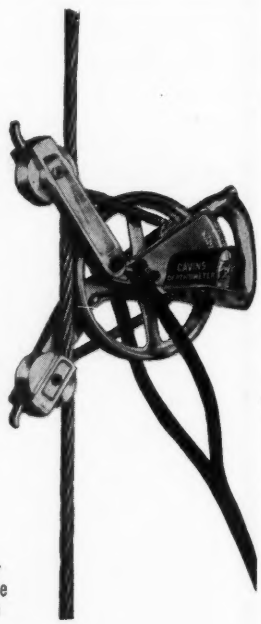

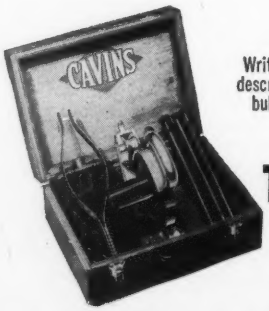

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Developed for low permeability formations which require artificial stimulation, Vibro-frac has been proved safe and effective in both old and new wells by more than a year of testing. Ask your Lane-Wells man about the many formations and areas tested or write for Vibro-frac Bulletin.

* *Vibro-Frac is a tradename of Petroleum Tool Research, Inc.*

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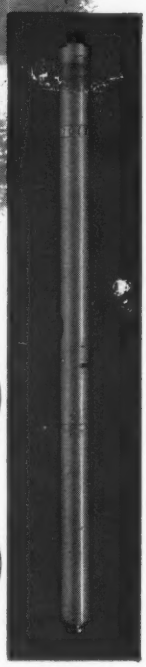
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